Dan Raviv Associates, Inc.

Consultants in hydrogeology, environmental sciences and engineering, site investigation/remediation, ISRA and UST compliance

Dan D. Raviv, Ph.D.
Kenneth B. Siet
John J. Trela, Ph.D.
Daniel A. Nachman
Dawn M. Pompeo
Christopher F. Zwingle, P.E.

CASE NO. NJDE981876642

SOIL REMEDIAL INVESTIGATION REPORT ARSENIC AREA

FORMER CELOTEX INDUSTRIAL PARK EDGEWATER, NEW JERSEY

DRAI JOB NO. 01C2084

prepared for:

Edgewater Enterprises, LLC
525 River Road
Edgewater, New Jersey 07020

Attention: Mr. Scott Heller

prepared by:

Dan Raviv Associates, Inc.
57 East Willow Street
Millburn, New Jersey 07041

April 12, 2002

DUPLICATE

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New Jersey Department of Environmental Protection
Division of Responsible Party Site Remediation
Bureau of Case Management
401 East State Street
P.O. Box 028
Trenton, New Jersey 08625-0028

Attn: Mr. Robert Hayton, Case Manager

Re: *Soil Remedial Investigation Report – Arsenic Area*
Former Celotex Industrial Park
Edgewater, New Jersey
Case No. NJDE981876642
DRAI Job No. 01C2084

Dear Mr. Hayton:

On behalf of Edgewater Enterprises, LLC, Dan Raviv Associates, Inc. (DRAI) has prepared the attached soil *Remedial Investigation Report* for the Arsenic Area at the above-referenced site.

If you have any questions or need additional information, please call.

Very truly yours,

DAN RAVIV ASSOCIATES, INC.

Keith Gagnon
Project Manager

Daniel Nachman
Senior Project Manager

R\2084_Arsenic Area RIR

c: Mr. Bradley Campbell, Commissioner (NJDEP)
Mr. Richard Ho (USEPA) (3 copies)
Mr. Scott Heller (Edgewater Enterprises)
Dennis Toft, Esq. (Wolff & Samson)
Mr. Kevin Orabone (EWMA)

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TABLE OF CONTENTS

LIST OF FIGURES

LIST OF TABLES

LIST OF APPENDICES

CASE NO. NJDE981876642

SOIL REMEDIAL INVESTIGATION REPORT
ARSENIC AREA

FORMER CELOTEX INDUSTRIAL PARK
EDGEWATER, NEW JERSEY

1.0 INTRODUCTION

On behalf of Edgewater Enterprises, LLC, Dan Raviv Associates, Inc. (DRAI) has prepared the following soil *Remedial Investigation Report* (RIR) for the Arsenic Area at the former Celotex Industrial Park in Edgewater, New Jersey (Figure 1). This RIR was prepared in accordance with the New Jersey Department of Environmental Protection's (NJDEP's) letter dated March 13, 2002; meetings between representatives of Edgewater Enterprises and the NJDEP conducted on March 13 and 22, 2002; various telephone conversations between Edgewater Enterprises and the NJDEP; and Edgewater Enterprises' *Remedial Investigation Workplan* (RIW) dated March 28, 2002. The RIW was verbally approved by the NJDEP on April 5, 2002.

The RIW was conducted to determine the contaminants of concern in the upper and lower fill material layers within the Arsenic Area, complete the vertical and horizontal delineation of the contaminants of concern, verify the general subsurface characteristics, and identify potential contaminant migration pathways so that appropriate remedial measures can be evaluated.

One of the principal goals of the March 28, 2002 RIW is to delineate the vertical and horizontal extent of high arsenic concentrations detected in soil in the Arsenic Area during previous investigations carried out from 1997 through 2001. A delineation guideline of 100 parts per million (ppm) has been agreed upon by Edgewater Enterprises and the NJDEP for the current RIW. There are other areas of the site, outside the Arsenic Area, where arsenic concentrations in the range of 100 to 1,000 ppm have been detected. These sporadic arsenic occurrences are related to the fill materials that were brought in over the last century to raise the grade of the site, and their concentrations are below the maximum that the NJDEP has observed in historic fill material. For these areas, Edgewater Enterprises will be proposing engineering and institutional controls. Therefore, any arsenic concentrations below 1,000 ppm can be addressed through engineering and institutional controls. Engineering and institutional controls may also be an applicable remedy for the soils with arsenic concentrations above 1,000 ppm, due to the impracticability of removal of soils in excess of 10 feet below the water table, as outlined in a position paper on technical impracticability sent to the NJDEP on February 27, 2002.

The investigation also addressed the NJDEP's concern that the C79 hot-spot excavation activities conducted during March 2000 may have impacted the upper fill material, and determined the arsenic concentration in former Test Pit U15 (Figure 2).

Based on findings during the implementation of the RIW, an investigation is being conducted to characterize a previously unknown area of suspected product found in the vicinity of borings SB25 and SB26. Based on observations of the soil in other borings, this area is unrelated to the suspected product previously encountered in test pits C3-1 and C3-2, in the southwest corner of the site (Figure 2).

Consistent with the meeting in the NJDEP Commissioner's office on March 13, 2002, Edgewater Enterprises is submitting this report before April 15, 2002 to provide the results of the delineation effort obtained to date so that decisions regarding site development in and adjacent to the Arsenic Area can be made.

The investigation determined that the primary contaminants of concern in the upper fill material are arsenic, lead and polynuclear aromatic hydrocarbons (PAHs). Copper, mercury, selenium and thallium have been sporadically detected in the upper fill material and are considered to be secondary contaminants of concern. The delineation sampling and analysis of the upper fill material is continuing; however, none of the samples of upper fill analyzed to date contain arsenic concentrations above 1,000 ppm.

The primary contaminants of concern in the lower fill material are arsenic, lead and PAHs. Antimony, copper, mercury, selenium, thallium and benzene are the secondary contaminants of concern. The delineation sampling and analysis of the lower fill material is continuing; however, all on-site arsenic concentrations above 1,000 ppm have been delineated.

The investigation surrounding the C-79 excavation detected arsenic and lead above the applicable delineation standard in one sample; however, the concentrations are within the range of arsenic and lead concentrations found elsewhere in the upper fill material. Therefore, the sampling results do not demonstrate that the C79 hot-spot excavation activities conducted during March 2000 impacted the upper fill material.

At former test pit U15, the recent sampling indicated an arsenic concentration of 57 ppm, compared to the previous result of 1,100 ppm. As discussed with the NJDEP, additional samples will be collected from this area to confirm the recent result.

A series of test pits will be excavated in the vicinity of borings SB25 and SB26 to visually examine the suspected product and collect samples to characterize the material.

Edgewater Enterprises requests that the NJDEP review this report so that a meeting with the NJDEP can be held during the week of April 15, 2002 to discuss the NJDEP's comments, present the results of the continuing investigation and reach an agreement regarding the construction of the 400 Building (see Figure 2 for the location of the proposed location of the 400 Building) and the remedial approach for the Arsenic Area.

2.0 PHYSICAL SETTING

2.1 Site Description

The site is located in what was historically an industrial area of Edgewater, New Jersey, along the Hudson River. The Arsenic Area is currently estimated to encompass approximately 2.5 acres, located in the southwestern portion of the site, adjacent to River Road.

2.2 Geology

The information collected from the soil borings drilled as part of this RIW was evaluated to refine the understanding of subsurface conditions. The boring logs are provided in Appendix A; geologic cross sections are presented on Figures 3, 4, 5, and 6. Approximately 2 to 13 feet of fill material overlies most of the property; in the on-site portion of the Arsenic Area, the thickness of the upper fill material ranges between approximately 5 and 7 feet. The upper fill material is generally a dark brown sand and silt with rocks construction and demolition debris-type material such as wood, brick and cement fragments (see Environmental Waste Management Associates test pit logs, Appendix B). The upper fill is non-indigenous material that was deposited during approximately 1988 to raise the topographic elevation of the site and is not connected to the former site industrial operations, which ceased in the early 1980s.

Approximately 3 to 10 feet of a distinct and older layer of fill material underlies the upper fill material (Figures 3 through 6). The lower fill material generally consists of reddish-purple sand; gray clay with cobbles, brick and cement; black sand and silt with cobbles and gravel; wood and concrete. It is believed that the lower fill material was deposited during the initial development of the site, in the late 1800s. The lower fill material extends off-site, as opposed to the upper fill material, which is limited to the site.

Native soils, consisting of a meadow mat layer, gray silt, and sand layers, are found beneath the lower fill material (Figures 3 through 6). The native soil layer is approximately 3 feet thick in the eastern portion of the Arsenic Area and approximately 20 feet thick in the western portion of the Arsenic Area. The native soils extend to bedrock, which slopes from the east to west and is encountered at approximately 15 to 40 feet below surface in the Arsenic Area. A bedrock surface contour map is shown on Figure 7. The Arsenic Area appears to be located over an area where the bedrock occurs relatively close to land surface.

2.3 Hydrogeology

Based on data obtained from on-site monitoring wells, the water table is generally found at approximately 9 feet below surface in the Arsenic Area. Ground water flow direction is easterly, with localized fluctuations.

Wells MW2, MW3, MW4 and MW6, located within and downgradient of the Arsenic Area (Figure 2), were sampled for PP+40 analysis in 1997 and for volatile organic compounds (VOCs) and arsenic in 1999. The only contaminants detected above the NJDEP's Ground Water Quality Standards (GWQS) in the ground water samples collected from the wells within and downgradient of the Arsenic Area were benzene and arsenic.

3.0 REMEDIAL INVESTIGATION RESULTS

All work was conducted in accordance with the NJDEP's *Technical Requirements for Site Remediation* (TRSR).

3.1 Sample Collection

Due to the presence of cobbles, boulders and demolition debris in the fill material, an air rig was used to complete the borings. Soil sampling was conducted in accordance with the TRSR, Section 3.4. A soil core was collected using a 2-foot long, 2-inch diameter split spoon. All soil samples were collected from a discrete 6-inch interval obtained from the 2-foot soil core. Each boring was logged in accordance with the TRSR, Section 3.6(a)2.i. and ii.

The ground surface at each boring location was surveyed and the elevation of each sample was determined relative to an on-site benchmark. The ground surface in the Arsenic Area has not been significantly altered since the test pit investigation was conducted in 2000.

3.2 Characterization Sampling

Soil samples were collected to characterize the upper and lower fill material and determine the contaminants of concern in each fill layer. For the upper fill material, two samples were collected at 1.5 to 2.0 and 3.5 to 4.0 feet below grade (ft bg) from each of borings C3-4, C3-5, C3-6, C3-10, C3-14, C3-15, C3-18 and C3-19 (Figure 2). (The upper fill material does not extend off-site; therefore, samples from the upper fill material can only be collected from on-site borings.) Each sample was analyzed for arsenic and lead, and the sample from each boring with the highest arsenic concentration was additionally analyzed for Target Compound List/Target Analyte List+30 (TCL/TAL+30). Therefore, eight soil samples from the upper fill material were analyzed for TCL/TAL+30, in accordance with the NJDEP-approved RIW.

Based on the results of the laboratory analysis (Tables I through VI), the contaminants of concern in the upper fill material are arsenic, lead and PAHs. Copper, mercury, selenium and thallium have been sporadically detected in the upper fill material and are considered to be secondary contaminants of concern.

For the lower fill material, one sample was collected from each of borings C3-4, C3-5, C3-6, C3-10, C3-14, C3-15, C3-18, C3-19, B10-0, B11-0, SB21 and B18-0 (Figure 2). The samples were collected from the interval with the highest arsenic concentration determined during the previous test pit and boring investigation. For example, at boring C3-6, a sample was collected from 13.5 to 14 ft bg, to correspond with the highest arsenic concentration detected during the previous test pit investigation. Each characterization sample collected from the lower fill material was analyzed for TCL/TAL+30. Therefore, twelve soil samples from the lower fill material were analyzed for TCL/TAL+30, as per the NJDEP-approved RIW.

The primary contaminants of concern in the lower fill material are arsenic, lead and PAHs. Antimony, copper, mercury, selenium, thallium and benzene are the secondary contaminants of concern. The NJDEP has provided verbal concurrence that these compounds are the contaminants of concern in the lower fill material.

The results of the TCL/TAL+30 analysis determined the contaminants of concern in the Arsenic Area. As discussed above, the site is overlain with two distinct layers of fill material. Both the upper and lower fill material meets the definition of historic fill material in the TRSR, Section 1.8, and contaminants associated with historic fill material (listed in Table 4-2 of the TRSR) were detected (primarily PAHs). As proposed in the NJDEP-approved RIW, all historic fill material contaminants detected at concentrations less than the maximum concentrations listed in Table 4-2 of the TRSR are excluded from the Arsenic Area contaminants of concern, with the exception of arsenic and lead.

3.3 Characterization and Delineation Criteria

Soil samples were collected to horizontally and vertically delineate the Arsenic Area contaminants of concern determined by the results of the characterization sampling.

Arsenic in the Arsenic Area will be delineated to 100 parts per million (ppm). In the off-site soils to the west, arsenic will be delineated to 20 ppm, or background concentrations, to the extent practical.

In accordance with the TRSR, Section 4.1(b), and as proposed in the approved RIW, all other contaminants of concern associated with the Arsenic Area detected in the on-site portion of the Arsenic Area will be delineated to the NJDEP's Restricted Use Soil Cleanup Criteria (RUSSC) or the Impact to Ground Water Soil Cleanup Criteria (IGWSCC), whichever is lower. As required by this section of the TRSR, Edgewater Enterprises will establish institutional and, if necessary, engineering controls for the site.

For the off-site, western portion of the Arsenic Area (beneath River Road), the contaminants of concern associated with the Arsenic Area will be delineated to the NJDEP's Unrestricted Use Soil Cleanup Criteria (UUSCC) or the IGWSCC, whichever is lower.

For the off-site, southern portion of the Arsenic Area (the Quanta site), Edgewater Enterprises will collect the samples proposed in the RIW, and discuss the delineation criteria with the NJDEP following receipt of the analytical results, as approved by the NJDEP.

3.4 Vertical Delineation

Soil samples were collected from 12 borings to determine the vertical extent of the contaminants of concern in the Arsenic Area. The vertical delineation sampling was conducted at borings C3-4, C3-5, C3-6, C3-10, C3-14, C3-15, C3-18 and C3-19 (Figure 2). Access to off-site borings B10-0, B11-0, SB21 and B18-0 was obtained from the property owner for the Quanta site on April 10, 2002, and the investigation on the Quanta site will begin on April 16, 2002 with a markout of the underground utilities. Soil boring on the Quanta site will begin on or about April 22, 2002.

These locations were chosen to correspond with previous soil samples with either the highest arsenic concentration, such as boring B11-0; the deepest arsenic concentration, such as boring C3-5; or where an increasing trend of arsenic concentrations appears to exist, such as boring C3-18. Therefore, the vertical delineation sampling was conducted to provide the data necessary to determine the depths of the contaminants of concern.

Where previous analytical data indicated that arsenic extended to a depth of at least 9 ft bg or less, soil sampling for vertical delineation began at 15 ft bg. Where arsenic was shown to extend to a depth greater than at least 14 feet below surface, soil sampling for vertical delineation began at 20 ft bg.

For example, at test pit C3-19, arsenic was shown to extend to at least 8 ft bg. Therefore, at proposed boring C3-19, the initial delineation sample was collected from a depth between 15 and 17 ft bg. At test pit C3-5, arsenic was shown to extend to at least 16 ft bg. Therefore, at proposed boring C3-5, the initial delineation sample was collected from a depth between 20 and 22 ft bg.

A split-spoon was used to collect a 2-foot soil core from each sampling interval. The soil core was visually inspected and screened with a photoionization detector (PID) for the presence of contamination. A soil sample was collected from the 6-inch interval of soil that was suspected of being the most contaminated. If there was no indication of contamination, a soil sample was collected from the upper 6-inch interval for laboratory analysis (e.g., 15 to 15.5 feet in the 15 to 17 feet core; 20 to 20.5 feet in the 20 to 22 feet core, etc.)

Following collection of the initial delineation sample, the vertical delineation boring was advanced in 5-foot intervals, and the sampling procedure described above was conducted at each 5-foot interval until bedrock is encountered. The deeper samples were archived at the laboratory pending receipt of the initial vertical delineation sample results.

The initial vertical delineation soil sample from each vertical delineation boring was analyzed for the contaminants of concern in the lower fill material. At each boring, the next deeper sample was analyzed for any contaminant of concern detected above the applicable delineation standard.

Based on the analytical data received to date, the vertical extent of the contaminant concentrations above the applicable delineation guidelines extends from 20 to 25 ft bg. Arsenic concentrations above 1,000 ppm extend from 15 to 21.5 ft bg.

Benzene was detected above the SCC of 1 ppm in only one boring, C3-6, at concentrations of 2.01 and 1.35 ppm at 13.5 to 14 and 15 to 15.5 ft bg, respectively. Benzene was not detected at 21.5 to 22 ft bg in boring C3-6.

Naphthalene concentrations above the SCC were detected in only two borings, C3-4 and C3-5 (Figure 2). Naphthalene is not on the NJDEP's database of historic fill material contaminants, and therefore the PAHs detected in these borings are not considered to be completely associated with historic fill material. However, the PAH concentrations in the borings without naphthalene concentrations above the SCC are within the maximum concentrations of historic fill material contaminants and therefore appear to be part of the historic fill material.

3.5 Horizontal Delineation

Horizontal delineation samples have been collected from borings SB1 through SB11, SB18 through SB20, and SB22 through SB35 (Figure 2). Some of the analytical data from these borings have not yet been received from the laboratory; the results received to date are shown on

Figure 2 and summarized in Tables I through VI. Horizontal delineation borings SB12 through SB17, and SB21 are located off-site on the Quanta property and will be sampled during the week of April 22, 2002.

The purpose of these borings was to determine the horizontal extent of the Arsenic Area contaminants of concern; therefore, each horizontal delineation sample was analyzed for the contaminants of concern detected in the nearby characterization sample.

The horizontal delineation sampling was dependant on the results of the characterization samples. Horizontal delineation samples were collected for the upper fill material contaminants of concern from the depth corresponding to the elevation of the characterization sample. In the event that no contaminants of concern were detected in the upper fill material, delineation sampling was not necessary.

For the lower fill material, two samples were collected from each horizontal delineation boring. Borings SB12 through SB17 are located on the Quanta site; site access was recently obtained, and samples from these borings will be collected during the week of April 22, 2002.

At each horizontal delineation soil boring, one soil sample was collected at the depth corresponding to the elevation of the sample containing the highest arsenic concentration in the closest vertical delineation soil boring. For example, the vertical delineation sampling confirmed that the highest arsenic concentration at boring C3-15 is at 10.5 to 11 ft bg; therefore, a sample was collected at the same elevation from the corresponding horizontal delineation soil boring SB5 (Figure 2).

A second soil sample was collected from each horizontal delineation soil boring at the 6-inch interval above the clean zone determined in the vertical delineation soil boring. For example, the vertical delineation sampling determined that the vertical extent of the contamination in boring C3-18 is at 20 to 20.5 ft bg (elevation –7.3 to –7.8); therefore, a sample was collected from horizontal delineation boring SB6 at the elevation corresponding to 19.5 to 20 ft bg (elevation –6.8 to –7.3) (Figure 2).

The on-site sampling results have determined that benzene concentrations above the SCC are limited to boring C3-6, and the PAH concentrations which do not appear to be associated with historic fill material are limited to borings C3-4 and C3-5. The extent of the on-site arsenic concentrations above 1,000 ppm has been determined as shown on Figure 2. The on-site delineation of arsenic concentrations above 100 ppm and the other six metals is continuing.

3.6 C79 Hot-Spot Excavation

Four soil samples were collected and analyzed to address the NJDEP's concern that the C79 hot-spot excavation activities may have impacted the upper fill material in the Arsenic Area. The four soil samples were collected from four locations in the area surrounding the C79 hot-spot excavation for arsenic and lead analysis (Figure 2).

The investigation surrounding the C-79 excavation detected arsenic and lead above the applicable delineation standard in one sample; however, the concentrations are within the range of arsenic and lead concentrations found elsewhere in the upper fill material. Therefore, the

sampling results do not demonstrate that the C79 hot-spot excavation activities conducted during March 2000 impacted the upper fill material.

3.7 Test Pit U15

A soil sample collected from 10 to 11 ft bg in Test Pit U15 during February 2002 was determined to have an arsenic concentration of 1,100 ppm (Figure 2). As part of the current RIW, a sample was collected from this interval and showed an arsenic concentration of 57 ppm. The NJDEP Case Manager has indicated that additional sampling in this area will be required; this sampling is currently scheduled for April 12, 2002.

4.0 CONCLUSIONS AND RECOMMENDATIONS

The following conclusions can be made from the investigation results obtained to date:

(1) The primary contaminants of concern in the upper fill material are arsenic, lead and PAHs. Copper, mercury, selenium and thallium have been sporadically detected in the upper fill material and are considered to be secondary contaminants of concern. The delineation sampling and analysis of the upper fill material is continuing; however, none of the samples analyzed to date contain arsenic concentrations above 1,000 ppm.

(2) The primary contaminants of concern in the lower fill material are arsenic, lead and PAHs. Antimony, copper, mercury, selenium, thallium and benzene are the secondary contaminants of concern.

(3) The delineation sampling and analysis of the lower fill material is continuing; however, the vertical extent of arsenic contamination within the Arsenic Area has been delineated to concentrations below 100 ppm, or to the top of bedrock.

(4) All on-site arsenic concentrations above 1,000 ppm have been delineated. The sample collected near former test pit U15 showed much lower concentrations, below 100 ppm; however, the investigation is continuing.

(5) A separate area of suspected product has been found under a portion of the footprint of the planned 400 Building. The investigation of this area will be completed in the near future. If the material is determined to be contaminated product, the impacted soils will be delineated and removed prior to the construction of the building.

(6) If it is determined that a remedial action other than institutional and engineering controls for arsenic is necessary, Edgewater Enterprises proposes that an arsenic concentration of 1,000 ppm be used as an action level for any additional remedial action. This standard is based on the NJDEP's database that indicates that the maximum arsenic concentration detected in historic fill material is 1,098 ppm. However, Edgewater Enterprises believes that engineering and institutional controls are a viable remedial approach to address Arsenic Area contaminants that have been in place for several decades.

Based on the delineation results to date and Edgewater Enterprises' commitment to remove any contaminated product beneath the footprint of the proposed 400 Building, Edgewater Enterprises requests a meeting with the NJDEP during the week of April 15, 2002 to discuss the NJDEP's comments on this report, present the results of the continuing investigation and reach an agreement regarding the construction of the 400 Building and the remedial approach for the Arsenic Area.

FIGURES

CENTRAL PARK QUADRANGLE, N.Y.–N.J.
1966
PHOTOREVISED 1979
7.5 MINUTE SERIES (Topographic)

0 2000 FT.
APPROXIMATE SCALE

N

NEW YORK
QUADRANGLE LOCATION

Dan Raviv Associates, Inc.
57 E. Willow Street Millburn, NJ 07041

SITE LOCATION

Former Celotex Industrial Park – Edgewater, NJ	
PREPARED BY: RKH/ODL	DATE: APRIL 2002
JOB NO.: 01C2084	FIGURE: 1

2084SLM –04/11/02

VERTICAL DELINEATION BORINGS

C3-4

Depth	1.5-2.0	3.5-4.0	5.5-6.0	6.5-7.0	9.5-10	14.5-15		20-20.5
Elevation	10.8-10.3	8.8-8.3	6.8-6.3	5.8-5.3	2.8-2.3	-2.2 to -2.7		-7.7 to -8.2
Date	03/26/02	03/26/02	06/08/00	06/08/00	06/08/00	06/08/00	03/26/02	03/22/02
As	50.3	252	14.8	352	853	1830	931	4.47
Pb	306	979	84	1070	17300	1040	6700	7.99
Sb		3.41	NA	NA	NA	NA	67.6	ND
Cu		205	NA	NA	NA	NA	1590	12.6
Tl		3.32	NA	NA	NA	NA	2.05	ND
Other PP-Metals		<SCC	NA	NA	NA	NA	<SCC	<SCC
Napthalene		465	NA	NA	NA	NA	6.77	ND
Acenapthene		686	NA	NA	NA	NA	2.14	0.094
Fluorene		519	NA	NA	NA	NA	2.17	0.083
Anthracene		720	NA	NA	NA	NA	2.24	ND
Fluoranthene		4590	NA	NA	NA	NA	8.09	0.089
Pyrene		3860	NA	NA	NA	NA	7.81	0.069
B(a)A		2710	NA	NA	NA	NA	3.72	ND
Chrysene		2880	NA	NA	NA	NA	4.31	ND
B(b)F		3010	NA	NA	NA	NA	3.65	ND
B(k)F		1190	NA	NA	NA	NA	3.57	ND
B(a)P		2360	NA	NA	NA	NA	4.23	ND
I(1,2,3-cd)P		1530	NA	NA	NA	NA	2.47	ND
D(a,h)A		505	NA	NA	NA	NA	1.07	ND
Benzene		<SCC	NA	NA	NA	NA	<SCC	ND
Other VOCs		<SCC	NA	NA	NA	NA	<SCC	NA
Pesticides		<SCC	NA	NA	NA	NA	ND	NA
PCBs		ND	NA	NA	NA	NA	ND	NA
Cyanide		<SCC	NA	NA	NA	NA	ND	NA

C3-5

Depth	1.5-2.0	3.5-4.0	5.5-6.0	7.5-8.0	10-10.5	14.5-15		15.5-16	20-20.5
Elevation	10.8-10.3	8.8-8.3	6.8-6.3	4.8-4.3	2.3-1.8	-2.2 to -2.7		-3.2 to -3.7	-7.7 to -8.2
Date	03/26/02	03/26/02	06/08/00	06/08/00	3/22/02	06/08/00	03/22/02	06/08/00	03/22/02
As	88.7	39.5	22.3	549	732	7130	3600	4740	28.6
Pb	269	132	98.9	1680	4130	16000	8910	126	59.9
Sb	ND	NA	NA	NA	59.5	NA	37.5	NA	ND
Cu	59.2	NA	NA	NA	943	NA	851	NA	21.6
Hg	2.46	NA	NA	NA	20.8	NA	20.1	NA	0.089
Tl	0.28	NA	NA	NA	ND	NA	4.51	NA	ND
Other PP-Metals	<SCC	NA	NA	NA	<SCC	NA	<SCC	NA	<SCC
Napthalene	0.671	NA	NA	NA	912	NA	306	NA	ND
Acenapthene	1.21	NA	NA	NA	325	NA	118	NA	ND
Fluorene	1.13	NA	NA	NA	291	NA	124	NA	ND
Anthracene	2.2	NA	NA	NA	220	NA	79.3	NA	0.091
Fluoranthene	9.7	NA	NA	NA	302	NA	141	NA	0.306
Pyrene	7.97	NA	NA	NA	198	NA	108	NA	0.213
B(a)A	5.23	NA	NA	NA	74.3	NA	35.8	NA	0.083
Chrysene	5.2	NA	NA	NA	68.7	NA	33.4	NA	0.073
B(b)F	5.37	NA	NA	NA	45	NA	17.6	NA	ND
B(k)F	1.9	NA	NA	NA	18.2	NA	22.4	NA	ND
B(a)P	4.11	NA	NA	NA	36	NA	24.5	NA	ND
I(1,2,3-cd)P	2.62	NA	NA	NA	18.2	NA	10.4	NA	ND
D(a,h)A	0.831	NA	NA	NA	5.36	NA	4.14	NA	ND
Benzene	<SCC	NA	NA	NA	<SCC	NA	<SCC	NA	ND
Other VOCs	<SCC	NA	NA	NA	<SCC	NA	<SCC	NA	NA
Pesticides	<SCC	NA	NA	NA	ND	NA	ND	NA	NA
PCBs	ND	NA	NA	NA	ND	NA	ND	NA	NA
Cyanide	ND	NA	NA	NA	ND	NA	ND	NA	NA

C3-6

Depth	1.5-2.0	3.5-4.0	5.5-6.0	7.5-8.0	11-11.5	13.5-14		15-15.5	21.5-22
Elevation	10.4-9.9	8.4-7.9	6.4-5.9	4.4-3.9	0.9-0.4	-1.6 to -2.1		-3.1 to -3.6	-9.6 to -10.1
Date	03/26/02	03/26/02	06/08/00	06/08/00	06/08/00	06/08/00	03/26/02	03/21/02	03/21/02
As	167	449	22	244	2550	4320	6550	1450	10.8
Pb	694	1030	170	1540	5280	141	695	3210	22.2
Cu	NA	108	NA	NA	NA	NA	NA	727	20.3
Tl	NA	2.05	NA	NA	NA	NA	NA	11.9	0.119
Other PP-Metals	NA	<SCC	NA	NA	NA	NA	NA	<SCC	<SCC
B(a)A	NA	3.19	NA	NA	NA	NA	2.41	6.14	ND
B(b)F	NA	2.88	NA	NA	NA	NA	1.45	4.96	ND
B(k)F	NA	1.31	NA	NA	NA	NA	2.24	1.87	ND
B(a)P	NA	2.33	NA	NA	NA	NA	2.18	3.97	ND
I(1,2,3-cd)P	NA	1.46	NA	NA	NA	NA	1.05	2.26	ND
D(a,h)A	NA	0.457	NA	NA	NA	NA	0.489	0.639	ND
Benzene	NA	0.213	NA	NA	NA	NA	2.01	1.35	ND
Other VOCs	NA	<SCC	NA	NA	NA	NA	<SCC	<SCC	NA
Pesticides	NA	<SCC	NA	NA	NA	NA	ND	NA	NA
PCBs	NA	ND	NA	NA	NA	NA	ND	NA	NA
Cyanide	NA	<SCC	NA	NA	NA	NA	ND	NA	NA

C3-10

Depth	1.0-1.5	3.5-4.0	5.5-6.0	6.5-7.0	7.5-8.0		15-15.5	20-20.5	25-25.5	30-30.5
Elevation	12.1-11.6	9.6-9.1	7.6-7.1	6.6-6.1	5.6-5.1		-1.9 to -2.4	-6.9 to -7.4	-11.9 to -12.4	-16.9 to -17.4
Date	03/25/02	03/25/02	06/08/00	06/08/00	06/08/00	03/25/02	03/25/02	03/25/02	03/25/02	03/25/02
As	6.69	6.33	950	778	6470	686	5360	721		
Pb	81.2	58.8	1200	1910	35000	1940	421	NA		
Cu	39	NA	NA	NA	NA	261	1190	NA		
Tl	0.561	NA	NA	NA	NA	19.3	88.7	NA		
Other PP-Metals	<SCC	NA	NA	NA	NA	<SCC	<SCC	NA		
B(a)A	2	NA	NA	NA	NA	4.02	ND	NA	NA	NA
B(b)F	2.65	NA	NA	NA	NA	4.72	ND	NA	NA	NA
B(k)F	0.96	NA	NA	NA	NA	5.53	ND	NA	NA	NA
B(a)P	1.82	NA	NA	NA	NA	5.5	ND	NA	NA	NA
I(1,2,3-cd)P	1.25	NA	NA	NA	NA	3.66	ND	NA	NA	NA
D(a,h)A	0.397	NA	NA	NA	NA	1.83	ND	NA	NA	NA
Benzene	ND	NA	NA	NA	NA	ND	<SCC	NA	NA	NA
Other VOCs	<SCC	NA	NA	NA	NA	ND	NA	NA	NA	NA
Pesticides	<SCC	NA	NA	NA	NA	ND	NA	NA	NA	NA
PCBs	ND	NA	NA	NA	NA	ND	NA	NA	NA	NA
Cyanide	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA

C3-14

Depth	1.5-2.0	3.5-4.0	5.5-6.0	6.5-7.0	8.5-9.0		16.5-17	21.5-22
Elevation	11.2-10.7	9.2-8.7	7.2-6.7	6.2-5.7	4.2-3.7		-3.8 to -4.3	-8.8 to -9.3
Date	03/25/02	03/25/02	06/08/00	06/08/00	06/08/00	03/25/02	03/21/02	03/21/02
As	65.1	7.9	5.08	568	2490	79.8	134	326
Pb	475	59.7	52.2	10100	8160	1980	76.9	53.2
Tl	0.669	NA	NA	NA	NA	0.394	1.16	6.75
Other PP-Metals	<SCC	NA	NA	NA	NA	<SCC	<SCC	<SCC
B(a)A	0.429	NA	NA	NA	NA	15.0	ND	ND
B(b)F	0.473	NA	NA	NA	NA	21.7	ND	ND
B(k)F	0.186	NA	NA	NA	NA	11.2	ND	ND
B(a)P	0.343	NA	NA	NA	NA	18.5	ND	ND
I(1,2,3-cd)P	0.222	NA	NA	NA	NA	12.0	ND	ND
D(a,h)A	0.073	NA	NA	NA	NA	4.52	ND	ND
Benzene	ND	NA	NA	NA	NA	ND	ND	ND
Other VOCs	ND	NA	NA	NA	NA	ND	ND	NA
Pesticides	ND	NA	NA	NA	NA	<SCC	NA	NA
PCBs	ND	NA	NA	NA	NA	ND	NA	NA
Cyanide	NA	NA	NA	NA	NA	ND	NA	NA

C3-15

Depth	1.5-2.0	3.5-4.0	5.5-6.0	7.5-8.0	10.5-11		13.5-14	20-20.5	22.5-23
Elevation	11-10.5	9.0-8.5	7.0-6.5	5.0-4.5	2.0-1.5		-1.0 to -1.5	-7.5 to -8.0	-10 to -10.5
Date	03/26/02	03/26/02	06/08/00	06/08/00	06/08/00	03/26/02	06/08/00	03/20/02	03/20/02
As	286	360	4.79	49.2	6670	532	2480	206	34
Pb	10100	4260	83.1	8870	46000	9840	36310	29.1	7.77
Sb	9.63	NA	NA	NA	NA	26.4	NA	NA	NA
Hg	75.2	NA	NA	NA	NA	56.4	NA	NA	NA
Se	157	NA	NA	NA	NA	152	NA	NA	NA
Other PP-Metals	<SCC	NA	NA	NA	NA	<SCC	NA	NA	NA
Fluoranthene	105	NA	NA	NA	NA	7.12	NA	NA	NA
B(a)A	60	NA	NA	NA	NA	4.06	NA	NA	NA
Chrysene	57	NA	NA	NA	NA	4.3	NA	NA	NA
B(b)F	59.6	NA	NA	NA	NA	4.11	NA	NA	NA
B(k)F	20.6	NA	NA	NA	NA	4.66	NA	NA	NA
B(a)P	44.8	NA	NA	NA	NA	5.05	NA	NA	NA
I(1,2,3-cd)P	26.5	NA	NA	NA	NA	2.78	NA	NA	NA
D(a,h)A	1.92	NA	NA	NA	NA	1.28	NA	NA	NA
VOCs	ND	NA	NA	NA	NA	ND	NA	NA	NA
Pesticides	<SCC	NA	NA	NA	NA	<SCC	NA	NA	NA
PCBs	ND	NA	NA	NA	NA	<SCC	NA	NA	NA
Cyanide	NA	NA	NA	NA	NA	ND	NA	NA	NA

C3-18

Depth	1.5-2.0	3.5-4.0	5.5-6.0	6.5-7.0	11.5-12	13.5-14		20-20.5	21-21.5
Elevation	11.2-10.7	9.2-8.7	7.2-6.7	6.2-5.7	1.2-0.7	-0.8 to -1.3		-7.3 to -7.8	-8.3 to -8.8
Date	03/25/02	03/25/02	06/08/00	06/08/00	06/08/00	06/08/00	03/25/02	03/20/02	03/20/02
As	584	526	12.7	78.3	667	4040	126	4.19	NA
Pb	3320	2970	260	5460	23500	67.3	790	14.3	NA
Hg	53.7	NA	NA	NA	NA	NA	9.56	NA	NA
Se	82	NA	NA	NA	NA	NA	11.7	NA	NA
Other PP-Metals	<SCC	NA	NA	NA	NA	NA	<SCC	NA	NA
B(a)A	0.608	NA	NA	NA	NA	NA	2.62		
B(b)F	6.64	NA	NA	NA	NA	NA	2.94		
B(k)F	2.57	NA	NA	NA	NA	NA	2.88		
B(a)P	5.04	NA	NA	NA	NA	NA	3.18		
I(1,2,3-cd)P	3.32	NA	NA	NA	NA	NA	1.84		
D(a,h)A	1.03	NA	NA	NA	NA	NA	0.849		
VOCs	ND	NA	NA	NA	NA	NA	ND	NA	NA
Pesticides	<SCC	NA	NA	NA	NA	NA	<SCC	NA	NA
PCBs	ND	NA	NA	NA	NA	NA	ND	NA	NA
Cyanide	NA	NA	NA	NA	NA	NA	ND	NA	NA

C3-19

Depth	1.5-2.0	3.5-4.0	5.5-6.0	6.5-7.0	7.5-8.0		15-15.5	20-20.5
Elevation	10.6-10.1	8.6-8.1	6.6-6.1	5.6-5.1	4.6-4.1		-2.9 to -3.4	-7.9 to -8.4
Date	03/25/02	03/25/02	06/08/00	06/08/00	06/08/00	03/25/02	03/21/02	03/21/02
As	210	9580	8.72	345	3030	1950	80.8	
Pb	455	10000	111	5920	25400	2830	59.7	NA
Cu	NA	4670	NA	NA	NA	1690	11.3	NA
Hg	NA	18.1	NA	NA	NA	3.73	0.205	NA
Tl	NA	83	NA	NA	NA	18.9	2.28	
Zn	NA	2160	NA	NA	NA	957	NA	NA
Other PP-Metals	NA	<SCC	NA	NA	NA	<SCC	<SCC	NA
B(a)A	NA	0.806	NA	NA	NA	3.88	ND	NA
Chrysene	NA	0.981	NA	NA	NA	4.88	ND	NA
B(b)F	NA	1.04	NA	NA	NA	4.03	ND	NA
B(k)F	NA	0.4	NA	NA	NA	3.63	ND	NA
B(a)P	NA	0.654	NA	NA	NA	4.44	ND	NA
I(1,2,3-cd)P	NA	0.514	NA	NA	NA	2.28	ND	NA
D(a,h)A	NA	0.17	NA	NA	NA	1.03	ND	NA
Benzene	NA	ND	NA	NA	NA	ND	ND	NA
VOCs	NA	ND	NA	NA	NA	ND	NA	NA
Pesticides	NA	ND	NA	NA	NA	ND	NA	NA
PCBs	NA	ND	NA	NA	NA	ND	NA	NA
Cyanide	NA	ND	NA	NA	NA	ND	NA	NA

B10-0

Depth	0.5	3.5
Elevation	8.3	5.3
Date	06/14/00	06/14/00
As	90	3440
Pb	NA	NA

B11-0

Depth	0.5	3.5
Elevation	8.5	5.5
Date	06/14/00	06/14/00
As	2650	35100
Pb	NA	NA

B12-0

Depth	0.5	3.5
Elevation		
Date	06/14/00	06/14/00
As	130	12000
Pb	NA	NA

B18-0

Depth	0.5
Elevation	
Date	06/15/00
As	3900
Pb	NA

TEST PITS

C3-1

Depth	3.5-4.0	4.0-4.5	9.5-10.0	13.5-14.0
Elevation	7.9-7.4	7.4-6.9	1.9-1.4	-2.1 to -2.6
Date	06/08/00	06/08/00	06/08/00	06/08/00
As	16.8	224	159	3.08
Pb	267	1610	6310	50.2

C3-2

Depth	5.5-6.0	7.5-8.0	9.5-10.0	11.5-12.0
Elevation	7.2-6.7	5.2-4.7	3.2-2.7	1.2-0.7
Date	06/08/00	06/08/00	06/08/00	06/08/00
As	7.92	251	65700	1680
Pb	110	574	2930	34.7

C3-3

Depth	5.5-6.0	7.5-8.0	14.5-15.0
Elevation	8.0-7.5	6.0-5.5	-1.0 to -1.5
Date	06/08/00	06/08/00	06/08/00
As	104	2240	32.2
Pb	158	2060	29.5

C3-7

Depth	5.5-6.0	7.5-8.0	11.5-12.0	13.5-14.0
Elevation	4.5-4.0	2.5-2.0	-1.5 to -2.0	-3.5 to -4.0
Date	06/08/00	06/08/00	06/08/00	06/08/00
As	28.2	139	5000	69.8
Pb	198	3030	14900	196

C3-8

Depth	5.5-6.0	7.5-8.0	11.5-12.0	12.5-13.0
Elevation	5.7-5.2	3.7-3.2	-0.3 to -0.8	-1.3 to -1.8
Date	06/08/00	06/08/00	06/08/00	06/08/00
As	10.4	2250	1840	938
Pb	81.9	2830	15500	326

C3-9

Depth	5.5-6.0	7.5-8.0	11.5-12.0	12.5-13.0
Elevation	6.1-5.6	4.1-3.6	0.1 to -0.4	-0.9 to -1.4
Date	06/08/00	06/08/00	06/08/00	06/08/00
As	17.2	535	1390	687
Pb	140	4460	43400	352

C3-11

Depth	5.5-6.0	6.5-7.0	11.5-12.0	12.0-12.5	13.5-14.0
Elevation	7.4-6.9	6.4-5.9	1.4-0.9	0.9-0.4	-0.6 to -1.1
Date	06/08/00	06/08/00	06/08/00	06/08/00	06/08/00
As	64.4	271	6550	3090	458
Pb	374	3920	9070	300	69.1

C3-12

Depth	4.5-5.0	5.5-6.0	11.5-12.0	12.5-13.0
Elevation	8.0-7.5	7.0-6.5	1.0-0.5	0.0 to -0.5
Date	06/08/00	06/08/00	06/08/00	06/08/00
As	14.8	85.7	2150	184
Pb	161	4670	32300	50.5

C3-13

Depth	5.5-6.0	6.5-7.0	11.5-12.0	12.5-13.0
Elevation	6.6-6.1	5.6-5.1	0.6-0.1	-0.4 to -0.9
Date	06/08/00	06/08/00	06/08/00	06/08/00
As	5.12	990	2660	522
Pb	145	1000	5080	108

C3-16

Depth	5.5-6.0	6.5-7.0	10.5-11.0
Elevation	5.8-5.3	4.8-4.3	0.8-0.3
Date	06/08/00	06/08/00	06/08/00
As	15.3	480	503
Pb	155	3640	5890

C3-17

Depth	5.5-6.0	6.5-7.0	10.5-11.0	13.5-14.0
Elevation	7.0-6.5	6.0-5.5	2.0-1.5	-1.0 to -1.5
Date	06/08/00	06/08/00	06/08/00	06/08/00
As	13.2	298	451	528
Pb	211	2720	2710	161

C3-20

Depth	5.5-6.0	6.5-7.0	11.5-12.0	13.5-14.0
Elevation	9.3-8.8	8.3-7.8	3.3-2.8	1.3-0.8
Date	06/08/00	06/08/00	06/08/00	06/08/00
As	58.6	109	691	410
Pb	236	2150	747	69

C3-21

Depth	5.5-6.0	6.5-7.0	11.5-12.0	12.5-13.0
Elevation	9.8-9.3	8.8-8.3	3.8-3.3	2.8-2.3
Date	06/08/00	06/08/00	06/08/00	06/08/00
As	7.25	22	785	34.4
Pb	140	920	13400	39.8

U15

U15

Depth	10-11	10-10.5
Elevation	5.3-6.3	5.3-4.8
Date	2/5/02	03/28/02
As	1100	57.3
Pb	NA	18

C-79

C-79

Depth	0.5-1.0			
	A	B	C	D
Elevation	10.8-10.3	10.8-10.3	10.8-10.3	10.8-10.3
Date	03/25/02	03/25/02	03/25/02	03/25/02
As	102	9.23	11.5	70.2
Pb	1660	148	84.4	390

OTHERS

B13-0 6/15/00 GSC	
Sample Depth	Arsenic (ppm)
0.5	379

B14-0 6/15/00 GSC	
Sample Depth	Arsenic (ppm)
0.5	626
3.5	439

B15-0 6/15/00 GSC	
Sample Depth	Arsenic (ppm)
0.5	250
3.5	358

B16-0 6/15/00 GSC	
Sample Depth	Arsenic (ppm)
0.5	134
3.5	1650

B17-0 6/15/00 GSC	
Sample Depth	Arsenic (ppm)
0.5	110
3.5	393

B19-0 6/15/00 GSC	
Sample Depth	Arsenic (ppm)
0.5	12

C-1 4/16/1997 ESI	
Sample Depth	Arsenic (ppm)
4.5-5.0	42.2

C-2 4/16/1997 ESI	
Sample Depth	Arsenic (ppm)
4.5-5.0	4.17

C-5 4/9/1997 ESI	
Sample Depth	Arsenic (ppm)
6.0-6.5	1.26
7.5-8.0	85.4

C-6 4/9/1997 ESI	
Sample Depth	Arsenic (ppm)
6.0-6.5	2.73
8.5-9.0	4.19

C-10 4/9/1997 ESI	
Sample Depth	Arsenic (ppm)
5.5-6.0	3.74
7.5-8.0	33.1

C-11 4/9/1997 ESI	
Sample Depth	Arsenic (ppm)
6.5-7.0	12.6
8.5-9.0	346

C-12 4/9/1997 ESI	
Sample Depth	Arsenic (ppm)
6.5-7.0	5.14
10.0-10.5	19.4

C-13 4/9/1997 ESI	
Sample Depth	Arsenic (ppm)
6.5-7.0	15.1
7.5-8.0	8.99

C-30A 4/10/1997 ESI	
Sample Depth	Arsenic (ppm)
0.0-0.5	6.08
5.5-6.0	6.94
8.5-9.0	67.2

C-61 4/17-22/1997 ESI	
Sample Depth	Arsenic (ppm)
0.0-0.5	10.6
4.5-5.0	8.59
7.5-8.0	16

C-78 4/20/1997 ESI	
Sample Depth	Arsenic (ppm)
0.0-0.5	5.68
3.5-4.0	4.08
11.5-12.0	17.8

C-80 4/20/97 ES1	
Sample Depth	Arsenic (ppm)
0-0.5	3.54
4.5-5.0	684

C-95 4/24/1997 ESI	
Sample Depth	Arsenic (ppm)
0.0-0.5	3.8
4.5-5.0	5.02
11.5-12.0	6.4

C-96 4/24/1997 ESI	
Sample Depth	Arsenic (ppm)
0.0-0.5	5.47
3.5-4.0	210
13.0-13.5	173

CC2-22 11/4/1999 EWMA	
Sample Depth	Arsenic (ppm)
7.5-8.0	983

CC2-28 11/4/1999 EWMA	
Sample Depth	Arsenic (ppm)
7.5-8.0	3.94

C2-2 6/25/1999 EWMA	
Sample Depth	Arsenic (ppm)
7.0-7.5	1528

C2-5 6/19/1999 EWMA	
Sample Depth	Arsenic (ppm)
8.0-8.5	28.7

C2-7 6/29/1999 EWMA	
Sample Depth	Arsenic (ppm)
8.0-8.5	104

PEC4-1 3/19/2000 EWMA	
Sample Depth	Arsenic (ppm)
5.5-6.0	3.48
7.5-8.0	27.9
10.0-10.5	11.1

PEC4-2 3/19/2000 EWMA	
Sample Depth	Arsenic (ppm)
5.5-6.0	8.42
7.5-8.0	10.2
10.0-10.5	3.08

PEC4-3 3/19/2000 EWMA	
Sample Depth	Arsenic (ppm)
5.5-6.0	3.17
7.5-8.0	44.9
10.0-10.5	4.28

PEC4-4 3/19/2000 EWMA	
Sample Depth	Arsenic (ppm)
5.5-6.0	4.5
7.5-8.0	22.6
10.0-10.5	5.14

PE4-5 3/19/00 EWMA	
Sample Depth	Arsenic (ppm)
10.0-10.5	9.44

PEC79-1 3/19/2000 EWMA	
Sample Depth	Arsenic (ppm)
4.5-5.0	20.8
6.5-7.0	6210
10.0-10.5	399

PEC79-2 3/19/2000 EWMA	
Sample Depth	Arsenic (ppm)
4.5-5.0	14.8
6.5-7.0	1000
10.0-10.5	2520

PEC79-3 3/19/00 EWMA	
Sample Depth	Arsenic (ppm)
10.0-10.5	1210

PEC79-4 3/19/2000 EWMA	
Sample Depth	Arsenic (ppm)
4.5-5.0	16.6
6.5-7.0	7300
10.0-10.5	2400

PEC79-5 3/19/2000 EWMA	
Sample Depth	Arsenic (ppm)
4.5-5.0	13
6.5-7.0	360
10.0-10.5	5880
13.5-14.0	46

M15 1/24/02 EWMA	
Sample Depth	Arsenic (ppm)
0-0.5	2.58
5-5.5	7.95
15-15.5	79.2

M18 1/24/02 EWMA	
Sample Depth	Arsenic (ppm)
0-0.5	6.58
2.5-3	4.36
10.5-11	27.1

M21 1/22/02 EWMA	
Sample Depth	Arsenic (ppm)
0-0.5	12.3
10.5-11	92.2

N11 2/27/02 EWMA	
Sample Depth	Arsenic (ppm)
7-9	4.13

N13 2/22/02 EWMA	
Sample Depth	Arsenic (ppm)
8.5-9	3.78

N15 1/24/02 EWMA	
Sample Depth	Arsenic (ppm)
0-0.5	3.89
4-4.5	5.12
15.5-16.0	11.7

N18 1/22/02 EWMA	
Sample Depth	Arsenic (ppm)
0-0.5	5.45
3-3.5	6.08
11-11.5	227

N21 1/22/02 EWMA	
Sample Depth	Arsenic (ppm)
0-0.5	7.5
4-4.5	19.8
10.5-11	9.72

R11 2/17/02 EWMA	
Sample Depth	Arsenic (ppm)
9.5-11.5	64.9

R13 3/4/02 EWMA	
Sample Depth	Arsenic (ppm)
8-11	27.3

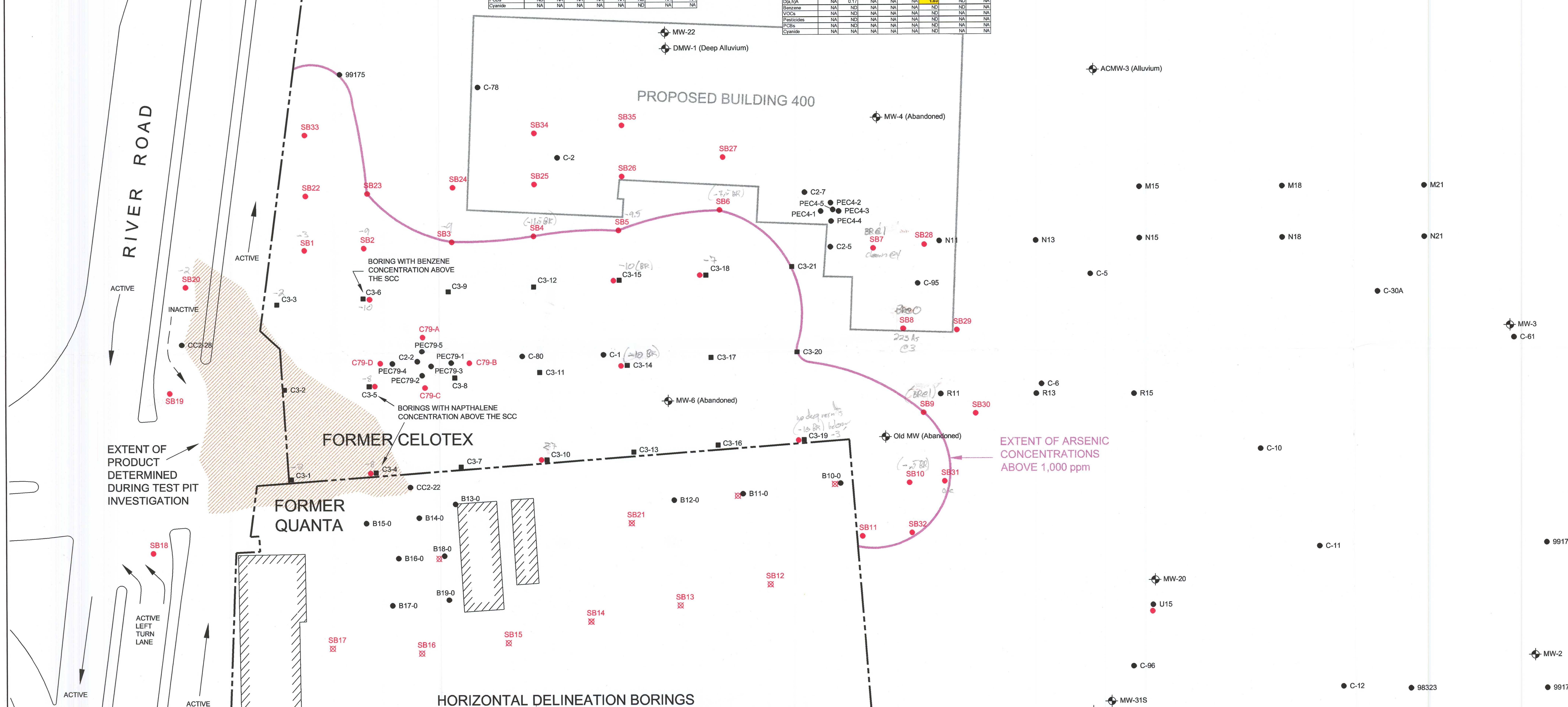
R15 3/4/02 EWMA	
Sample Depth	Arsenic (ppm)
10-12	43.7

99175	
Sample Depth	Arsenic (ppm)
12	666

99172	
Sample Depth	Arsenic (ppm)
18	9.4

98323	
Sample Depth	Arsenic (ppm)
15.5	1.2

99173	
Sample Depth	Arsenic (ppm)
?	25.8



HORIZONTAL DELINEATION BORINGS

SB-1

Depth	4.4-4.9	6.8-7.3	15.9-16.4	23.4-23.9
Elevation	8.4-7.9	6.0-5.5	-3.1 to -3.6	-10.6 to -11.1
Date	03/27/02	03/27/02	03/27/02	03/27/02
As	6.93	3740	56.4	3.77
Pb	74.5	913	11	8

SB-2

Depth	3.6-4.1	13.6-14.1	21.1-21.6	26.1-26.6
Elevation	8.4-7.9	-1.6 to -2.1	-9.1 to -9.6	-14.1 to -14.6
Date	03/27/02	03/27/02	03/27/02	03/27/02
As	6.46	1080	9.57	
Pb	126	416	18.6	
Benzene				

SB-3

Depth	1.7-2.2	12-12.5	21.2-21.7	26.2-26.7
Elevation	10.4-9.9	0.1 to -0.4	-9.1 to -9.6	-14.1 to -14.6
Date	03/27/02	03/27/02	03/27/02	03/27/02
As	5.51	370	7.72	
Pb	81.4	416	32.6	

SB-4

Depth	12.5-13	22.5-23
Elevation	0.5-0.0	-9.5 to -10.0
Date	03/26/02	03/26/02
As	159	106
Pb	12.4	42.4
Other PP-Metals		
SVOCs		
VOCs		
Pesticides		
PCBs		
Cyanide		

SB-5

Depth	11.9-12.4	22.9-23.4
Elevation	1.5-1.0	-9.5 to -10.0
Date	03/27/02	03/27/02
As	256	4.27
Pb	673	13.1

SB-6

Depth	4.8-5.3	14.8-15.3	20.8-21.3
Elevation	9.2-8.7	-0.8 to -1.3	-6.8 to -7.3
Date	03/27/02	03/27/02	03/27/02
As	370	108	155
Pb	6280	44.5	1080

SB-7

Depth	1.5-2.0	5.5-6.0	7-7.5	12.4-12.9
Elevation	14.7-14.2	10.7-10.2	9.2-8.7	3.8-3.3
Date	03/27/02	03/27/02	03/27/02	03/27/02
As			NA	16.5
Pb			NA	32.9

SB-8

Depth	1.5-2.0	4.0-4.5	5.7-6.2	7.7-8.2	13-13.5
Elevation	14.8-14.3	12.3-11.8	10.6-10.1	8.6-8.1	3.3-2.8
Date	03/28/02	03/28/02	03/28/02	03/28/02	03/28/02
As					223
Pb					42.5

SB-9

Depth	1.5-2.0	3.5-4.0	5.8-6.3	7.8-8.3	11.8-12.3
Elevation	14.9-14.4	12.9-12.4	10.6-10.1	8.6-8.1	4.6-4.1
Date	03/28/02	03/28/02	03/28/02	03/28/02	03/28/02
As					183
Pb					1230

SB-10

Depth	1.5-2.0	3.5-4.0	5.8-6.3	7.8-8.3	9.5-10	11.1-11.6	15.6-16.1	16.1-16.6
Elevation	14.9-14.4	12.9-12.4	10.6-10.1	8.6-8.1	6.9-6.4	5.3-4.8	0.8-0.3	0.3 to -0.2
Date	04/01/02	04/01/02	03/29/02	03/29/02	04/01/02	03/29/02	03/29/02	03/29/02
As						5400	1040	
Pb						98.7	NA	NA
Tl						3.27	NA	
SVOCs							NA	NA
VOCs						ND	NA	NA
Pesticides						ND	NA	NA
PCBs						ND	NA	NA
Cyanide						<SCC		

SB-11

Depth	1.5-2.0	4.0-4.5	6.6-7.1	12.6-13.1	13.1-13.6	17.6-18.1	18.1-18.6	22.6-23.1
Elevation	10.6-10.1	8.1-7.6	5.5-5.0	-0.5 to -1.0	-1.0 to -1.5	-5.5 to -6.0	-6.0 to -6.5	-10.5 to -11
Date	03/29/02	03/29/02	03/29/02	03/29/02	03/29/02	03/29/02	03/29/02	03/29/02
As			365					
Pb			411	NA				
Tl			4.99					
B(a)P			0.745					
VOCs			ND	NA	NA			
Pesticides			ND	NA	NA			
PCBs			ND	NA	NA			
Cyanide			<SCC					

SB-18

Depth	9.2-9.7
Elevation	4.3 to 3.8
Date	04/09/02
As	19.5
Pb	71.3

SB-19

Depth	10.2-10.7	15.6-16.1	21.5-22
Elevation	3.2 to 2.7	-2.2 to -2.7	-8.1 to -8.6
Date	04/08/02	04/08/02	04/08/02
As	9.16	4.10	2.36
Pb	60.3	6.61	4.62

SB-20

Depth	7.8-8.3	15.4-15.9	22.9-23.4
Elevation	6.0 to 5.5	-1.6 to -2.1	-9.1 to -9.6
Date	04/05/02	04/05/02	04/05/02
As	789	64.3	7.51
Pb	675	35.2	5.9

SB-22

Depth	6.8-7.3
Elevation	6.0-5.5
Date	04/03/02
As	1280
Pb	13000

SB-23

Depth	14.4-14.9
Elevation	-1.6 to -2.1
Date	04/03/02
As	11.1

SB-24

Depth	6.1-6.6	14.4-14.9
Elevation	8.4 to 7.9	0.1 to -0.4
Date	04/03/02	04/03/02
As	5.22	200
Pb	121	NA
Tl	ND	NA

SB-25

Depth	1.2-1.7	3.2-3.7
Elevation	11 to 10.5	9.0 to 8.5
Date	04/06/02	04/06/02
As	4.85	9.94
Pb	91	NA
Hg	0.184	NA
Se	ND	NA
Zn	ND	ND

SB-26

Depth	11.1-11.6
Elevation	1.5 to 1.0
Date	04/04/02
As	27.1
Pb	170
Zn	ND

SB-27

Depth	4.4-4.9	14.4-14.9
Elevation	9.2 to 8.7	-0.8 to -1.3
Date	04/06/02	04/06/02
As	6.08	173
Pb	61.9	NA

SB-31

Depth	11.6-12.1
Elevation	5.3 to 4.8
Date	04/06/02
As	6.19
Tl	0.248

EXPLANATION

- PROPERTY BOUNDARY
- MW-3 — MONITORING WELL
- C-6 — SOIL BORING
- C3-9 — EWMA TEST PIT
- SB1 — DRAI SOIL BORING
- SB33 — PROPOSED SOIL BORING

Parameter	USCC (ppm)	RSCC (ppm)	IGWSCC (ppm)
As = Arsenic	20	100*	–
Pb = Lead	400	600	–
Sb = Antimony	14	340	–
Cu = Copper	600	600	–
Hg = Mercury	14	270	–
Se = Selenium	63	3,100	–
Tl = Thallium	2	2	–
Zn = Zinc	1,500	1,500	–
Napthalene	230	4200	100
Acenapthene	3400	10000	100
Fluorene	2300	10000	100
Anthracene	10000	10000	100
Fluoranthene	2300	10000	100
Pyrene	1700	10000	100
B(a)A = benzo(a)anthracene	0.9	4	500
Chrysene	9	40	500
B(b)F = benzo(b)fluoranthene	0.9	4	50
B(k)F = benzo(k)fluoranthene	0.9	4	500
B(a)P = benzo(a)pyrene	0.66	0.66	100
I(1,2,3-cd)P = ideno(1,2,3-cd)pyrene	0.9	4	500
D(a,h)A = dibenzo (a,h)anthracene	0.66	0.66	100
Benzene	3	13	1
Pesticides			
PCBs	0.49	2	50
Cyanide	1100	21000	–

* site specific standard
USCC = NJDEP's Unrestricted Use Soil Cleanup Criteria
RSCC = NJDEP's Restricted Use Soil Cleanup Criteria.
IGWSCC = NJEDP's Impact to Ground Water Soil Cleanup Criteria

For all compounds, except arsenic:
Bold indicates concentration above the USCC or IGWSCC, whichever is lower
Yellow shading indicates concentration above the RSCC.

For Arsenic only:
Red = concentration greater than 1,000 ppm
Orange = concentration greater than 100 ppm and less than 1,000 ppm
Bold = concentration above 20 ppm.

0 30 FT.
APPROXIMATE SCALE

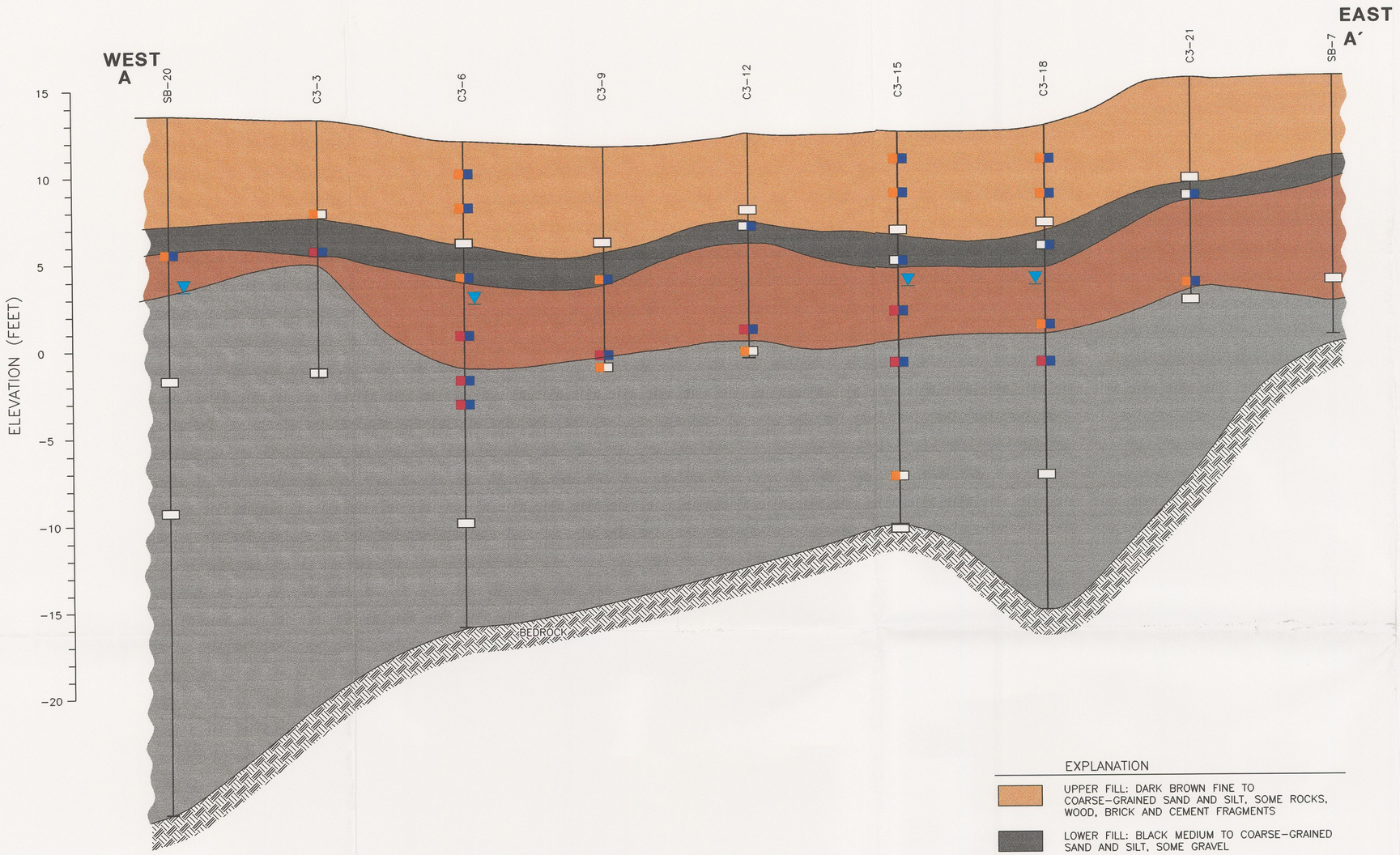
Dan Raviv Associates, Inc.
57 E. Willow Street Millburn, NJ 07041

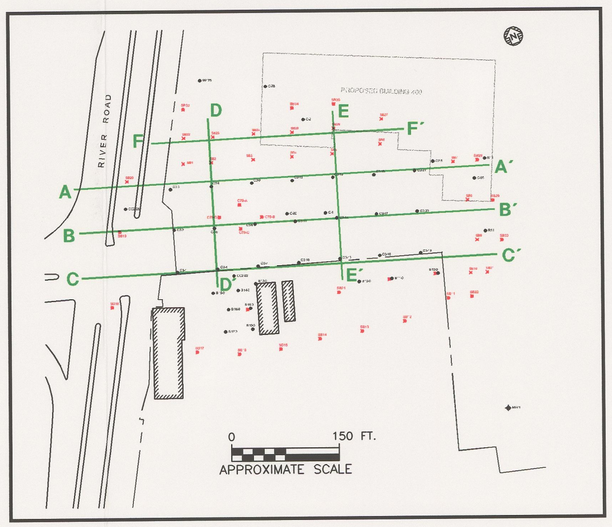
SOIL ANALYTICAL RESULTS
ARSENIC AREA

Former Celotex Industrial Park - Edgewater, NJ

PREPARED BY: KG/LB | DATE: APRIL 2002
JOB NO.: 01C2084 | FIGURE: 2

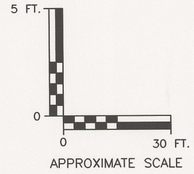
2084-7 -04/12/02





EXPLANATION

- UPPER FILL: DARK BROWN FINE TO COARSE-GRAINED SAND AND SILT, SOME ROCKS, WOOD, BRICK AND CEMENT FRAGMENTS
- LOWER FILL: BLACK MEDIUM TO COARSE-GRAINED SAND AND SILT, SOME GRAVEL
- LOWER FILL: REDDISH PURPLE FINE TO COARSE-GRAINED SAND
- NATIVE: GRAY SILT RED-BROWN SAND WITH TRACE MEADOW MAT
- WATER LEVEL
- ARSENIC <100 ppm
- ARSENIC >100 ppm AND <1,000 ppm
- ARSENIC >1,000 ppm
- LEAD <600 ppm
- LEAD >600 ppm



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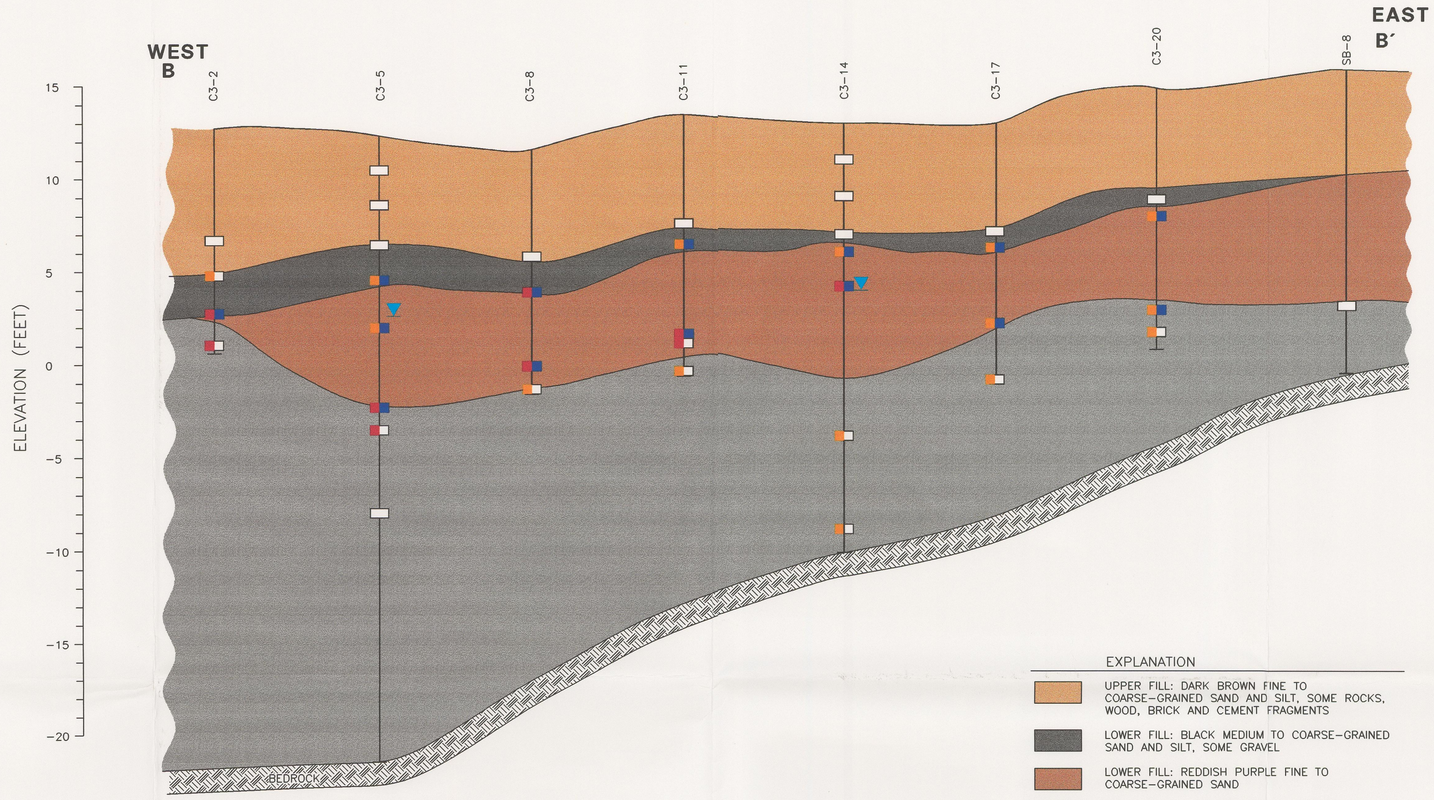
CROSS-SECTION THROUGH ARSENIC AREA
A-A'

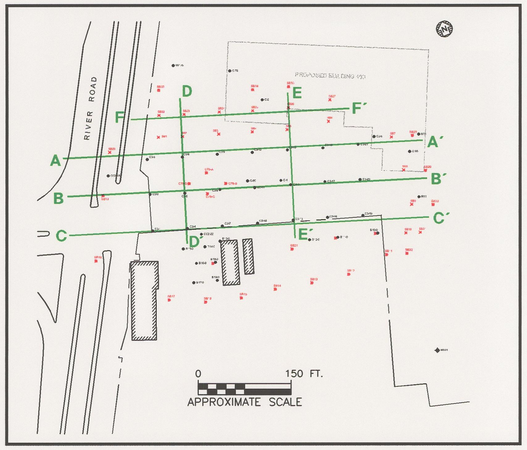
FORMER CELOTEX INDUSTRIAL SITE – EDGEWATER, NJ	
PREPARED BY: RKH/ODL	DATE: APRIL 2002
JOB NO.: 01C2084	FIGURE: 3

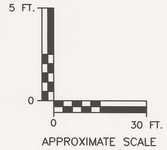
2084-6A -04/10/02



EXPLANATION

- UPPER FILL: DARK BROWN FINE TO COARSE-GRAINED SAND AND SILT, SOME ROCKS, WOOD, BRICK AND CEMENT FRAGMENTS
- LOWER FILL: BLACK MEDIUM TO COARSE-GRAINED SAND AND SILT, SOME GRAVEL
- LOWER FILL: REDDISH PURPLE FINE TO COARSE-GRAINED SAND
- NATIVE: GRAY SILT RED-BROWN SAND WITH TRACE MEADOW MAT
- WATER LEVEL
- ARSENIC <100 ppm
- ARSENIC >100 ppm AND <1,000 ppm
- ARSENIC >1,000 ppm
- LEAD <600 ppm
- LEAD >600 ppm





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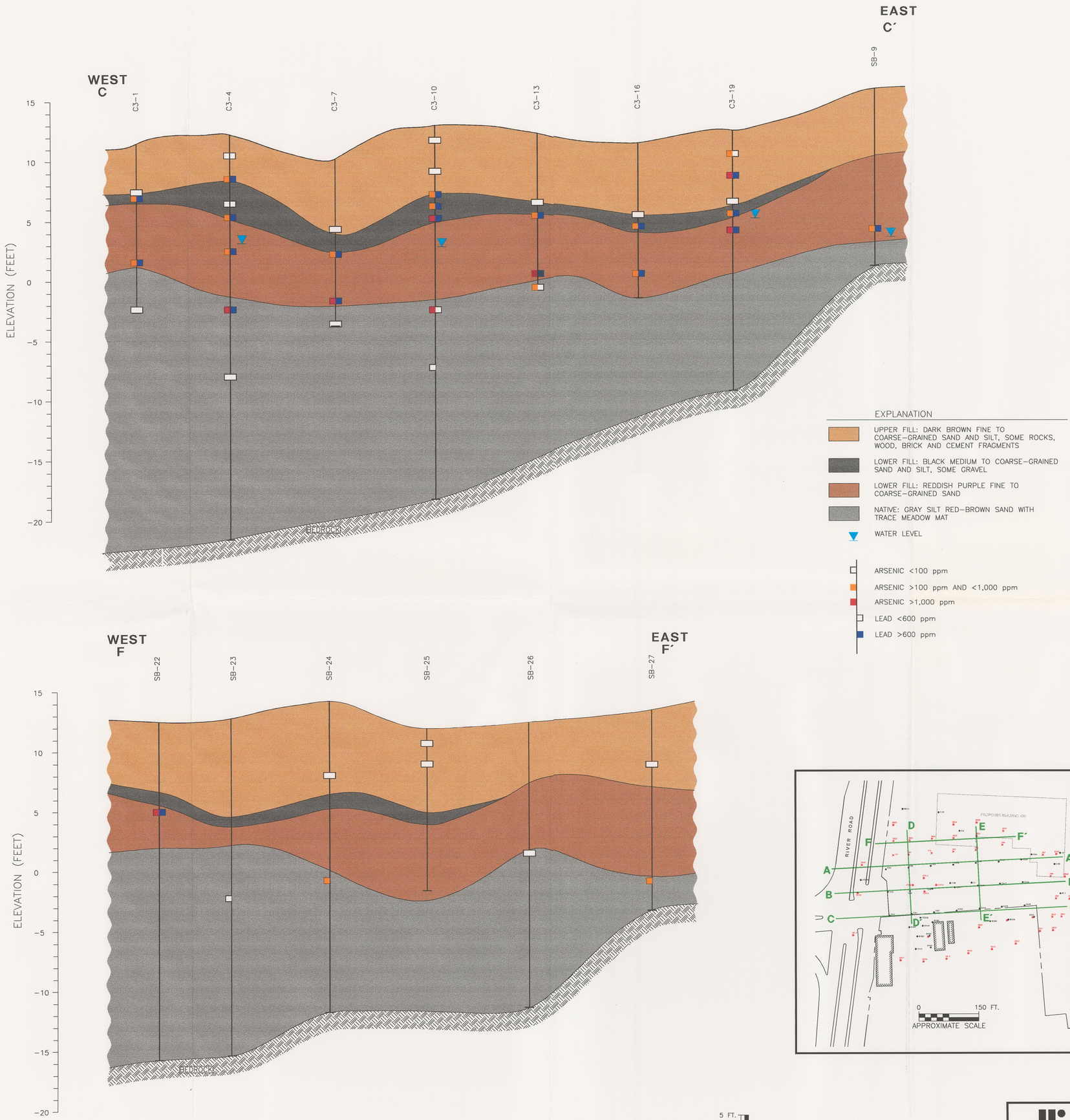
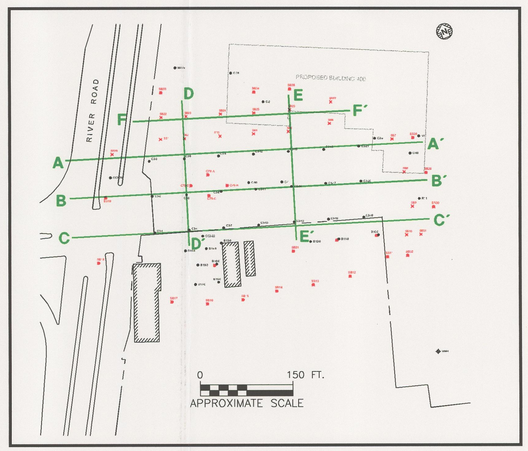
CROSS-SECTION THROUGH ARSENIC AREA
B-B'

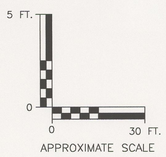
FORMER CELOTEX INDUSTRIAL SITE – EDGEWATER, NJ

PREPARED BY: RKH/ODL	DATE: APRIL 2002
JOB NO.: 01C2084	FIGURE: 4

2084-6B -04/10/02







Dan Raviv Associates, Inc.
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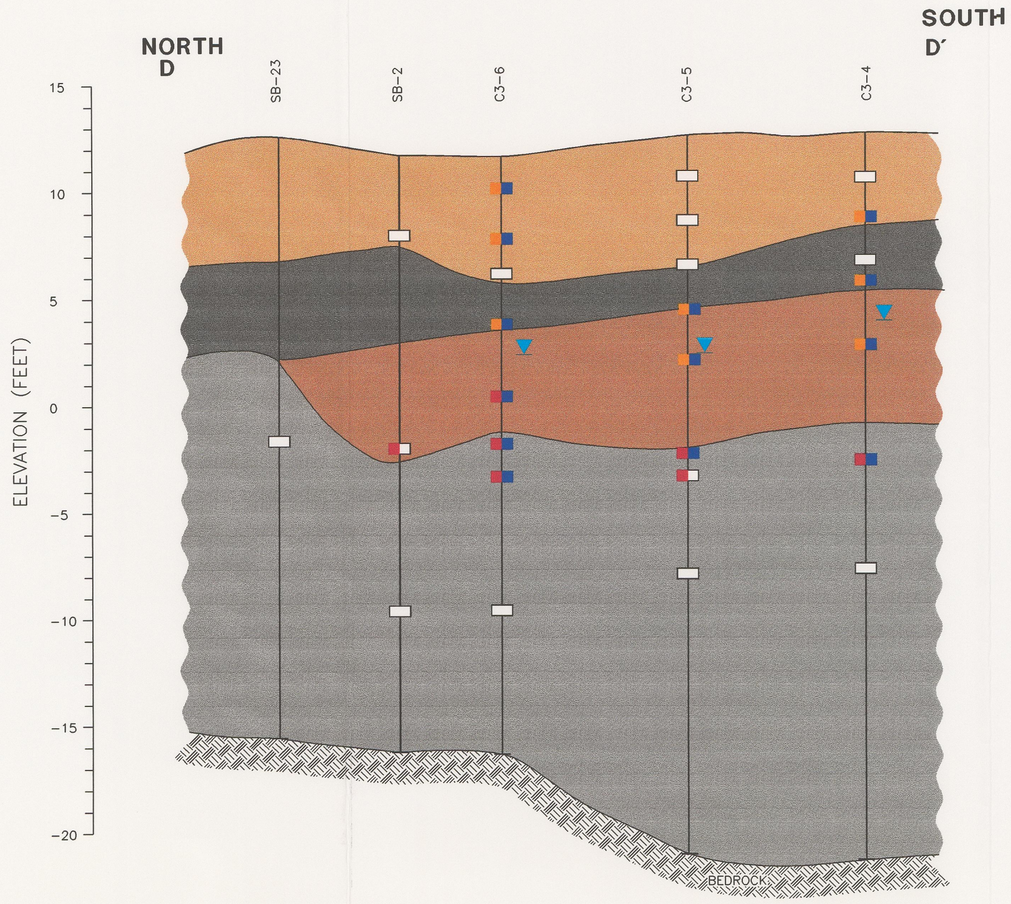
CROSS-SECTION THROUGH ARSENIC AREA
C-C' AND F-F'

FORMER CELOTEX INDUSTRIAL SITE – EDGEWATER, NJ

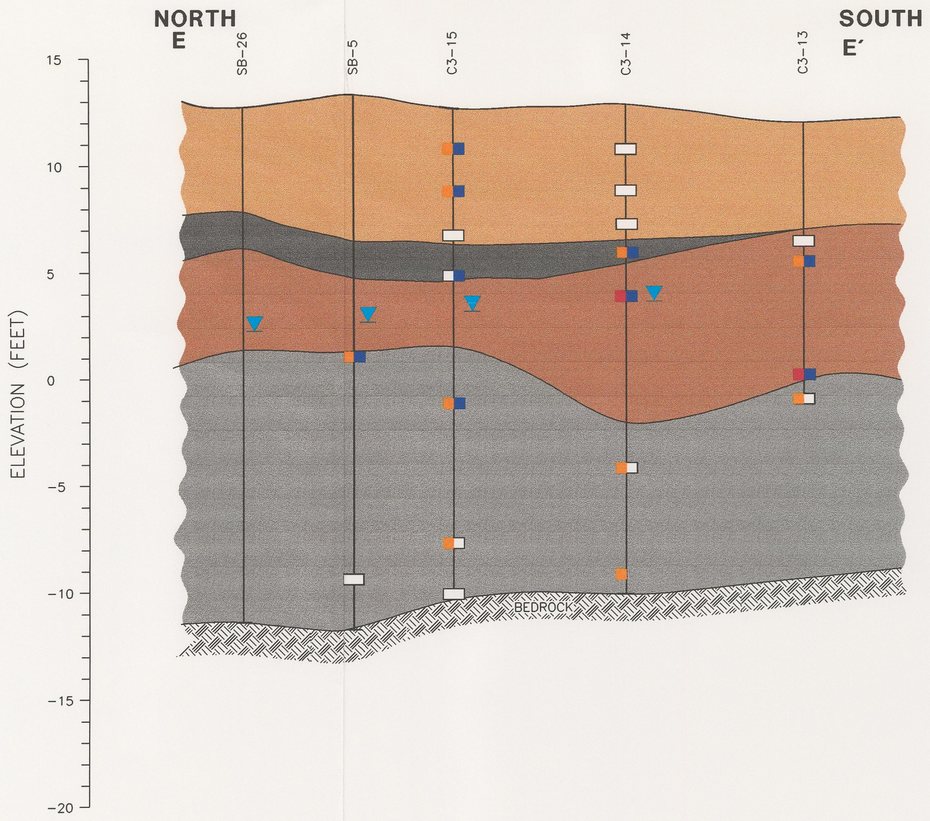
PREPARED BY: RKH/ODL	DATE: APRIL 2002
JOB NO.: 01C2084	FIGURE: 5

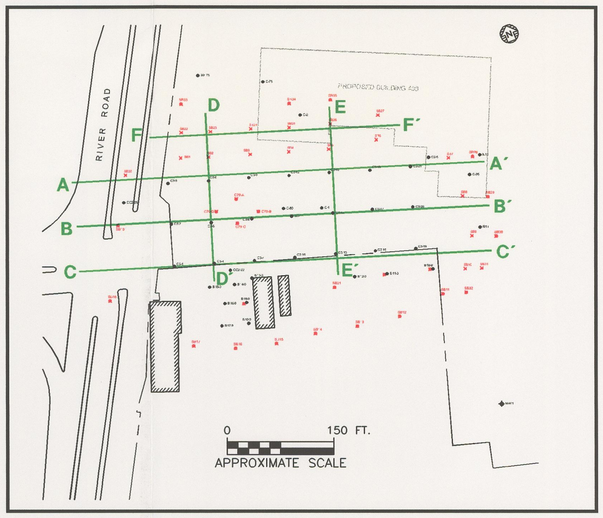
2084-6C -04/10/02

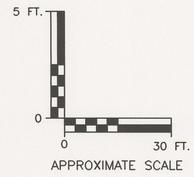


EXPLANATION

- UPPER FILL: DARK BROWN FINE TO COARSE-GRAINED SAND AND SILT, SOME ROCKS, WOOD, BRICK AND CEMENT FRAGMENTS
- LOWER FILL: BLACK MEDIUM TO COARSE-GRAINED SAND AND SILT, SOME GRAVEL
- LOWER FILL: REDDISH PURPLE FINE TO COARSE-GRAINED SAND
- NATIVE: GRAY SILT RED-BROWN SAND WITH TRACE MEADOW MAT
- WATER LEVEL
- ARSENIC <100 ppm
- ARSENIC >100 ppm AND <1,000 ppm
- ARSENIC >1,000 ppm
- LEAD <600 ppm
- LEAD >600 ppm







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57 E. Willow Street Millburn, NJ 07041

CROSS-SECTION THROUGH ARSENIC AREA
D-D' AND E-E'

FORMER CELOTEX INDUSTRIAL SITE – EDGEWATER, NJ	
PREPARED BY: RKH/ODL	DATE: APRIL 2002
JOB NO.: 01C2084	FIGURE: 6

2084-6D -04/10/02

N

RIVER ROAD

PROPOSED BUILDING 400

SB22 −15.2
SB23 −15.2
SB24 −11.5
SB25 −1.5
SB26 −11.4
SB27 −2.9
SB1 −21.2
SB2 −15
SB3 −15.4
SB4 −11.5
SB5 −10.6
SB6 −7.5
SB7 1.2
SB8 0.3
SB9 1.4
SB10 −0.6
SB31 1.9
SB20 −26.2
C3-6 −16.1
C3-5 −21.7
C3-4 −21.7
C3-10 −18.4
C3-14 −10.3
C3-15 −10.5
C3-18 −15.3
C3-19 −9.9

-20 -18 -16 -14 -12 -10 -8 -6 -4 -2 0 2 -24 -22

EXPLANATION

PROPERTY BOUNDARY

C-6 ● SOIL BORING

−16.1 ELEVATION OF BEDROCK SURFACE

-16 BEDROCK SURFACE ISOCONTOUR

NOTE: ELEVATIONS ARE RELATIVE TO AN ON-SITE BENCHMARK.

0 60 FT.
APPROXIMATE SCALE

Dan Raviv Associates, Inc.
57 E. Willow Street Millburn, NJ 07041

BEDROCK TOPOGRAPHY
CONTOUR MAP

Former Celotex Industrial Park – Edgewater, NJ

PREPARED BY: RKH/LB	DATE: APRIL 2002
JOB NO.: 01C2084	FIGURE: 7

2084-8 -04/12/02

TABLES

Table I
Summary of Priority Pollutant Metals in Soil

		Client ID:	C3(4)		C3(4)		C3(4)		C3(4)		C3(5)		C3(5)		C3(5)		C3(5)
		Sample Depth:	1.5-2		3.5-4		14.5-15		20-20.5		1.5-2		3.5-4		10-10.5		14.5-15
		Elevation:	10.8-10.3		8.8-8.3		-2.2 to -2.7		-7.7 to -8.2		10.8-10.3		8.8-8.3		2.3-1.8		-2.2 to -2.7
		Lab ID:	2140-002		2140-003		2140-004		2077-008		2140-005		2140-006		2077-003		2077-004
		Date Sampled:	3/26/02		3/26/02		3/26/02		3/22/02		3/26/02		3/26/02		3/22/02		3/22/02
Metals (ppm)	***USCC***	***RSCC***															
Aluminum	~	~	NA		8360		1440		NA		17900		NA		175		9600
Antimony	***14***	***340***	NA		3.41		**67.6**		ND		ND		NA		**59.5**		**37.5**
Arsenic	***20***	***100****	**50.3**		**252**		**931**		4.47		**88.7**		**39.5**		**73.2**		**3600**
Barium	***700***	***47000***	NA		212		181		NA		89.4		NA		170		239
Beryllium	***2***	***2***	NA		ND		ND		NA		0.671		NA		ND		ND
Cadmium	***39***	***100***	NA		0.812		1.88		NA		ND		NA		1.55		1.04
Calcium	~	~	NA		4510		940		NA		5360		NA		333		3020
Chromium	~	~	NA		18.2		6.57		NA		53.4		NA		ND		20.8
Cobalt	~	~	NA		10.2		15.6		NA		15.8		NA		38.8		14.2
Copper	***600***	***600***	NA		205		**1590**		12.6		59.2		NA		**943**		**851**
Iron	~	~	NA		22000		15000		NA		25500		NA		12100		30400
Lead	***400***	***600***	306		**979**		**6700**		7.99		269		132		**4130**		**8910**
Magnesium	~	~	NA		4610		237		NA		8020		NA		81.6		2430
Manganese	~	~	NA		189		22.8		NA		496		NA		15.0		282
Mercury	***14***	***270***	NA		3.22		2.78		ND		2.46		NA		**20.8**		**20.1**
Nickel	***250***	***2400***	NA		13.9		4.26		NA		25.4		NA		2.75		18.4
Potassium	~	~	NA		1020		737		NA		1290		NA		63.6		1840
Selenium	***63***	***3100***	NA		6.34		29.8		ND		ND		NA		34.4		41.7
Silver	***110***	***4100***	NA		1.73		12.9		NA		ND		NA		9.67		7.20
Sodium	~	~	NA		727		512		NA		433		NA		126		762
Thallium	***2***	***2***	NA		**3.32**		**2.05**		ND		0.280		NA		ND		**4.51**
Vanadium	***370***	***7100***	NA		49.3		4.39		NA		47.5		NA		ND		24.6
Zinc	***1500***	***1500***	NA		171		546		NA		103		NA		1080		409

* = site specific delineation criterion

Table I
Summary of Priority Pollutant Metals in Soil

		Client ID:	C3(5)	C3(6)	C3(6)	C3(6)	C3(6)	C3(6)	C3(10)
		Sample Depth:	20-20.5	1.5-2	3.5-4	13.5-14	15.0-15.5	21.5-22.0	1-1.5
		Elevation:	-7.7 to -8.2	10.4 to 9.9	8.4 to 7.9	- 1.6 to -2.1	-3.1 to -3.6	-9.6 to -10.1	12.1 to 11.6
		Lab ID:	2077-005	2140-007	2140-008	2140-009	2035-005	2035-006	2113-001
		Date Sampled:	3/22/02	3/26/02	3/26/02	3/26/02	3/21/02	3/21/02	3/25/02
Metals (ppm)	***USCC***	***RSCC***							
Aluminum	~	~	NA	NA	17200	6580	NA	NA	9960
Antimony	*14*	*340*	ND	NA	ND	ND	10.7	NA	ND
Arsenic	*20*	*100**	**28.6**	**167**	**449**	**6550**	**1450**	10.8	6.69
Barium	*700*	*47000*	NA	NA	108	150	NA	NA	54.1
Beryllium	*2*	*2*	NA	NA	ND	ND	NA	NA	0.625
Cadmium	*39*	*100*	NA	NA	ND	2.62	NA	NA	ND
Calcium	~	~	NA	NA	7560	7640	NA	NA	8010
Chromium	~	~	NA	NA	55.8	35.4	NA	NA	26.4
Cobalt	~	~	NA	NA	18.7	9.78	NA	NA	9.03
Copper	*600*	*600*	21.6	NA	108	453	**727**	20.3	39
Iron	~	~	NA	NA	25200	12600	NA	NA	18500
Lead	*400*	*600*	59.9	**694**	**1030**	**695**	**3210**	22.2	81.2
Magnesium	~	~	NA	NA	10300	1060	NA	NA	4330
Manganese	~	~	NA	NA	501	62.7	NA	NA	241
Mercury	*14*	*270*	0.089	NA	2.46	5.19	11.2	ND	0.816
Nickel	*250*	*2400*	NA	NA	32.5	16.6	NA	NA	17.6
Potassium	~	~	NA	NA	1550	2480	NA	NA	2030
Selenium	*63*	*3100*	NA	NA	2.82	5.86	13.8	ND	4.38
Silver	*110*	*4100*	NA	NA	ND	1.52	NA	NA	0.571
Sodium	~	~	NA	NA	675	686	NA	NA	392
Thallium	*2*	*2*	ND	NA	**2.05**	**6.53**	**11.9**	0.119	0.516
Vanadium	*370*	*7100*	NA	NA	43.6	36.7	NA	NA	23.2
Zinc	*1500*	*1500*	NA	NA	107	387	NA	NA	43.1

* = site specific delineation criterion

Table I
Summary of Priority Pollutant Metals in Soil

		Client ID:	C3(10)		C3(10)		C3(10)		C3(10)		C3(10)		C3(10)		C3(14)		C3(14)			
		Sample Depth:	3.5-4		7.5-8		15-15.5		20-20.5		25-25.5		30-30.5		1.5-2		3.5-4			
		Elevation:	9.6 to 9.1		5.6 to 5.1		-1.9 to -2.4		-6.9 to -7.4		-11.9 to -12.4		-16.9 to -17.4		11.2 to 10.7		9.2 to 8.7			
		Lab ID:	2113-002		2113-003		2113-004		2113-005		2113-006		2113-007		2113-018		2113-019			
		Date Sampled:	3/25/02		3/25/02		3/25/02		3/25/02		3/25/02		3/25/02		3/25/02		3/25/02			
Metals (ppm)	***USCC***	***RSCC***																		
Aluminum	~	~	NA		13400		NA		NA		NA		NA		12900		NA			
Antimony	*14*	*340*	NA		4.95		48.7		NA		NA		NA		ND		NA			
Arsenic	*20*	*100**	6.33		**686**		**5360**		**721**		NA		NA		**65.1**		7.9			
Barium	*700*	*47000*	NA		141		NA		NA		NA		NA		78.3		NA			
Beryllium	*2*	*2*	NA		ND		NA		NA		NA		NA		0.896		NA			
Cadmium	*39*	*100*	NA		0.887		NA		NA		NA		NA		ND		NA			
Calcium	~	~	NA		15900		NA		NA		NA		NA		7500		NA			
Chromium	~	~	NA		55.9		NA		NA		NA		NA		25.6		NA			
Cobalt	~	~	NA		10.6		NA		NA		NA		NA		9.36		NA			
Copper	*600*	*600*	NA		261		**1190**		NA		NA		NA		46.6		NA			
Iron	~	~	NA		24000		NA		NA		NA		NA		22600		NA			
Lead	*400*	*600*	58.8		**1940**		**421**		NA		NA		NA		**475**		59.7			
Magnesium	~	~	NA		5040		NA		NA		NA		NA		4590		NA			
Manganese	~	~	NA		319		NA		NA		NA		NA		306		NA			
Mercury	*14*	*270*	NA		11.4		0.312		NA		NA		NA		2.57		NA			
Nickel	*250*	*2400*	NA		33.1		NA		NA		NA		NA		17.4		NA			
Potassium	~	~	NA		1280		NA		NA		NA		NA		2610		NA			
Selenium	*63*	*3100*	NA		10.9		ND		NA		NA		NA		5.54		NA			
Silver	*110*	*4100*	NA		2.10		NA		NA		NA		NA		0.802		NA			
Sodium	~	~	NA		1090		NA		NA		NA		NA		253		NA			
Thallium	*2*	*2*	NA		**19.3**		**88.7**		NA		NA		NA		0.669		NA			
Vanadium	*370*	*7100*	NA		31.5		NA		NA		NA		NA		25.2		NA			
Zinc	*1500*	*1500*	NA		88.9		NA		NA		NA		NA		44.7		NA			

* = site specific delineation criterion

Table I
Summary of Priority Pollutant Metals in Soil

		Client ID:		C3(14)		C3(14)		C3(14)		C3(15)		C3(15)		C3(15)		C3(15)		
		Sample Depth:		8.5-9		16.5-17.0		21.5-22.0		1.5-2		3.5-4		10.5-11		20-20.5		
		Elevation:		4.2 to 3.7		-3.8 to -4.3		-8.8 to -9.3		11.0 to 10.5		9.0 to 8.5		2.0 to 1.5		-7.5 to -8.0		
		Lab ID:		2113-020		2035-001		2035-002		2113-015		2113-016		2113-017		1998-01		
		Date Sampled:		3/25/02		3/20/02		3/21/02		3/25/02		3/25/02		3/25/02		3/20/02		
Metals (ppm)	***USCC***	***RSCC***																
Aluminum	~	~		12600		NA		NA		10600		NA		6550		NA		
Antimony	*14*	*340*		3.11		1.90		0.80		9.63		NA		**26.4**		NA		
Arsenic	*20*	*100**		**79.8**		**134**		**326**		**286**		**360**		**532**		**206**		
Barium	*700*	*47000*		77		NA		NA		133		NA		222		NA		
Beryllium	*2*	*2*		ND		NA		NA		ND		NA		ND		NA		
Cadmium	*39*	*100*		0.416		NA		NA		0.502		NA		0.502		NA		
Calcium	~	~		7600		NA		NA		7480		NA		8050		NA		
Chromium	~	~		55.1		NA		NA		319		NA		456		NA		
Cobalt	~	~		16.4		NA		NA		8.92		NA		6.23		NA		
Copper	*600*	*600*		84.8		49.7		23.6		107		NA		84.3		NA		
Iron	~	~		18000		NA		NA		20700		NA		19400		NA		
Lead	*400*	*600*		**1980**		76.9		53.2		**10100**		**4260**		**9840**		**29.1**		
Magnesium	~	~		6630		NA		NA		6180		NA		3540		NA		
Manganese	~	~		285		NA		NA		246		NA		217		NA		
Mercury	*14*	*270*		7.99		0.197		ND		**75.2**		NA		**56.4**		NA		
Nickel	*250*	*2400*		29.3		NA		NA		22.7		NA		19.4		NA		
Potassium	~	~		882		NA		NA		1470		NA		1140		NA		
Selenium	*63*	*3100*		20.5		ND		ND		**157**		NA		**152**		NA		
Silver	*110*	*4100*		ND		NA		NA		4.59		NA		3.27		NA		
Sodium	~	~		939		NA		NA		559		NA		403		NA		
Thallium	*2*	*2*		0.394		1.16		**6.75**		ND		NA		1.21		NA		
Vanadium	*370*	*7100*		35.7		NA		NA		23.3		NA		23.6		NA		
Zinc	*1500*	*1500*		60.0		NA		NA		102		NA		69.8		NA		

* = site specific delineation criterion

Table I
Summary of Priority Pollutant Metals in Soil

	Client ID:	C3(15)	C3(18)	C3(18)	C3(18)	C3(18)	C3(19)	C3(19)	C3(19)
	Sample Depth:	22.5-23	1.5-2	3.5-4	13.5-14	20-20.5	1.5-2	3.5-4	7.5-8
	Elevation:	-10 to -10.5	11.2 to 10.7	9.2 to 8.7	-0.8 to -1.3	-7.3 to -7.8	10.6 to 10.1	8.6 to 8.1	4.6 to 4.1
	Lab ID:	1998-05	2113-008	2113-009	2113-010		2113-021	2113-022	2113-023
	Date Sampled:	3/20/02	3/25/02	3/25/02	3/25/02	3/20/02	3/25/02	3/25/02	3/25/02
Metals (ppm)	***USCC***	***RSCC***							
Aluminum	~	~	NA	7940	NA	13700	NA	NA	1140	987
Antimony	*14*	*340*	NA	4.57	NA	ND	NA	NA	77.8	2.51
Arsenic	*20*	*100**	**34**	**584**	**526**	**126**	4.19	**210**	**9580**	**1950**
Barium	*700*	*47000*	NA	129	NA	78.5	NA	NA	262	341
Beryllium	*2*	*2*	NA	ND	NA	0.750	NA	NA	ND	ND
Cadmium	*39*	*100*	NA	0.544	NA	ND	NA	NA	7.92	2.87
Calcium	~	~	NA	15000	NA	4370	NA	NA	733	877
Chromium	~	~	NA	52.8	NA	48.5	NA	NA	12.9	5.22
Cobalt	~	~	NA	6.12	NA	10.4	NA	NA	16.3	4.55
Copper	*600*	*600*	NA	115	NA	74	NA	NA	**4670**	**1690**
Iron	~	~	NA	13900	NA	19200	NA	NA	57800	17300
Lead	*400*	*600*	7.77	**3320**	**2970**	**790**	14.3	**455**	**10000**	**2830**
Magnesium	~	~	NA	3110	NA	6880	NA	NA	72.1	171
Manganese	~	~	NA	192	NA	240	NA	NA	31.1	15.9
Mercury	*14*	*270*	NA	**53.7**	NA	9.56	NA	NA	**18.1**	3.73
Nickel	*250*	*2400*	NA	12.6	NA	23.1	NA	NA	6.45	2.22
Potassium	~	~	NA	756	NA	1630	NA	NA	957	571
Selenium	*63*	*3100*	NA	**82.0**	NA	11.7	NA	NA	17.5	8.05
Silver	*110*	*4100*	NA	6.11	NA	0.910	NA	NA	31.8	8.67
Sodium	~	~	NA	371	NA	334	NA	NA	1960	485
Thallium	*2*	*2*	NA	**3.89**	NA	0.852	NA	NA	**83.0**	**18.9**
Vanadium	*370*	*7100*	NA	20.1	NA	33.8	NA	NA	6.73	3.21
Zinc	*1500*	*1500*	NA	86.3	NA	86.1	NA	NA	**2160**	957

* = site specific delineation criterion

Table I
Summary of Priority Pollutant Metals in Soil

	Client ID:	C3(19)	C79-A	C79-B	C79-C	C79-D	SB1	SB1
	Sample Depth:	15.0-15.5	0.5-1	0.5-1	0.5-1	0.5-1	4.4-4.9	6.8-7.3
	Elevation:	-2.9 to -3.4	10.8 to 10.3	10.8 to 10.3	10.8 to 10.3	10.8 to 10.3	8.4 to 7.9	6.0 to 5.5
	Lab ID:	2035-003	2113-011	2113-012	2113-013	2113-014	2172-002	2172-003
	Date Sampled:	3/21/02	3/25/02	3/25/02	3/25/02	3/25/02	3/27/02	3/27/02
Metals (ppm)	***USCC***	***RSCC***						
Aluminum	~	~	NA	NA	NA	NA	NA	NA	NA
Antimony	*14*	*340*	ND	NA	NA	NA	NA	NA	NA
Arsenic	*20*	*100**	**80.8**	**102**	9.23	11.5	**70.2**	6.93	**3740**
Barium	*700*	*47000*	NA	NA	NA	NA	NA	NA	NA
Beryllium	*2*	*2*	NA	NA	NA	NA	NA	NA	NA
Cadmium	*39*	*100*	NA	NA	NA	NA	NA	NA	NA
Calcium	~	~	NA	NA	NA	NA	NA	NA	NA
Chromium	~	~	NA	NA	NA	NA	NA	NA	NA
Cobalt	~	~	NA	NA	NA	NA	NA	NA	NA
Copper	*600*	*600*	11.3	NA	NA	NA	NA	NA	NA
Iron	~	~	NA	NA	NA	NA	NA	NA	NA
Lead	*400*	*600*	59.7	**1660**	148	84.4	390	74.5	**913**
Magnesium	~	~	NA	NA	NA	NA	NA	NA	NA
Manganese	~	~	NA	NA	NA	NA	NA	NA	NA
Mercury	*14*	*270*	0.205	NA	NA	NA	NA	NA	NA
Nickel	*250*	*2400*	NA	NA	NA	NA	NA	NA	NA
Potassium	~	~	NA	NA	NA	NA	NA	NA	NA
Selenium	*63*	*3100*	ND	NA	NA	NA	NA	NA	NA
Silver	*110*	*4100*	NA	NA	NA	NA	NA	NA	NA
Sodium	~	~	NA	NA	NA	NA	NA	NA	NA
Thallium	*2*	*2*	**2.28**	NA	NA	NA	NA	NA	NA
Vanadium	*370*	*7100*	NA	NA	NA	NA	NA	NA	NA
Zinc	*1500*	*1500*	NA	NA	NA	NA	NA	NA	NA

* = site specific delineation criterion

Table I
Summary of Priority Pollutant Metals in Soil

		Client ID:	SB1		SB1		SB2		SB2		SB2		SB3		SB3		SB3
		Sample Depth:	15.9-16.4		23.4-23.9		3.6-4.1		13.6-14.1		21.1-21.6		1.7-2.2		12.0-12.5		21.2-21.7
		Elevation:	-3.1 to -3.6		-10.6 to -11.1		8.4 to 7.9		-1.6 to -2.1		-9.1 to -9.6		10.4 to 9.9		0.1 to -0.4		-9.1 to -9.6
		Lab ID:	2172-004		2172-005		2204-2202		2204-003		2204-004		2204-006		2204-007		2204-008
		Date Sampled:	3/27/02		3/27/02		3/27/02		3/27/02		3/27/02		3/28/02		3/28/02		3/28/02
Metals (ppm)	***USCC***	***RSCC***															
Aluminum	~	~	NA		NA		NA		NA		NA		NA		NA		NA
Antimony	*14*	*340*	NA		NA		NA		NA		NA		NA		NA		NA
Arsenic	*20*	*100**	**56.4**		3.77		6.46		**1080**		9.57		5.51		**370**		7.72
Barium	*700*	*47000*	NA		NA		NA		NA		NA		NA		NA		NA
Beryllium	*2*	*2*	NA		NA		NA		NA		NA		NA		NA		NA
Cadmium	*39*	*100*	NA		NA		NA		NA		NA		NA		NA		NA
Calcium	~	~	NA		NA		NA		NA		NA		NA		NA		NA
Chromium	~	~	NA		NA		NA		NA		NA		NA		NA		NA
Cobalt	~	~	NA		NA		NA		NA		NA		NA		NA		NA
Copper	*600*	*600*	NA		NA		NA		NA		NA		NA		NA		NA
Iron	~	~	NA		NA		NA		NA		NA		NA		NA		NA
Lead	*400*	*600*	11.0		8.00		126		**416**		18.6		81.4		**416**		32.6
Magnesium	~	~	NA		NA		NA		NA		NA		NA		NA		NA
Manganese	~	~	NA		NA		NA		NA		NA		NA		NA		NA
Mercury	*14*	*270*	NA		NA		NA		NA		NA		NA		NA		NA
Nickel	*250*	*2400*	NA		NA		NA		NA		NA		NA		NA		NA
Potassium	~	~	NA		NA		NA		NA		NA		NA		NA		NA
Selenium	*63*	*3100*	NA		NA		NA		NA		NA		NA		NA		NA
Silver	*110*	*4100*	NA		NA		NA		NA		NA		NA		NA		NA
Sodium	~	~	NA		NA		NA		NA		NA		NA		NA		NA
Thallium	*2*	*2*	NA		NA		NA		NA		NA		NA		NA		NA
Vanadium	*370*	*7100*	NA		NA		NA		NA		NA		NA		NA		NA
Zinc	*1500*	*1500*	NA		NA		NA		NA		NA		NA		NA		NA

* = site specific delineation criterion

Table I
Summary of Priority Pollutant Metals in Soil

		Client ID:	SB4	SB4	SB5	SB5	SB6	SB6	SB6
		Sample Depth:	12.5-13	22.5-23	11.9-12.4	22.9-23.4	4.8-5.3	14.8-15.3	20.8-21.3
		Elevation:	0.5 to 0.0	-9.5 to 10	1.5 to 1.0	-9.5 to -10	9.2 to 8.7	-0.8 to -1.3	-6.8 to -7.3
		Lab ID:	2140-010	2140-011	2171-001	2171-002	2171-003	2171-004	2171-005
		Date Sampled:	3/26/02	3/26/02	3/27/02	3/27/02	3/27/02	3/27/02	3/27/02
Metals (ppm)	***USCC***	***RSCC***							
Aluminum	~	~	NA	NA	NA	NA	NA	NA	NA
Antimony	*14*	*340*	NA	NA	NA	NA	NA	NA	NA
Arsenic	*20*	*100**	**159**	**106**	**256**	4.27	**370**	**108**	**155**
Barium	*700*	*47000*	NA	NA	NA	NA	NA	NA	NA
Beryllium	*2*	*2*	NA	NA	NA	NA	NA	NA	NA
Cadmium	*39*	*100*	NA	NA	NA	NA	NA	NA	NA
Calcium	~	~	NA	NA	NA	NA	NA	NA	NA
Chromium	~	~	NA	NA	NA	NA	NA	NA	NA
Cobalt	~	~	NA	NA	NA	NA	NA	NA	NA
Copper	*600*	*600*	NA	NA	NA	NA	NA	NA	NA
Iron	~	~	NA	NA	NA	NA	NA	NA	NA
Lead	*400*	*600*	12.4	42.4	**673**	13.1	**6280**	44.5	**1080**
Magnesium	~	~	NA	NA	NA	NA	NA	NA	NA
Manganese	~	~	NA	NA	NA	NA	NA	NA	NA
Mercury	*14*	*270*	NA	NA	NA	NA	NA	NA	NA
Nickel	*250*	*2400*	NA	NA	NA	NA	NA	NA	NA
Potassium	~	~	NA	NA	NA	NA	NA	NA	NA
Selenium	*63*	*3100*	NA	NA	NA	NA	NA	NA	NA
Silver	*110*	*4100*	NA	NA	NA	NA	NA	NA	NA
Sodium	~	~	NA	NA	NA	NA	NA	NA	NA
Thallium	*2*	*2*	NA	NA	NA	NA	NA	NA	NA
Vanadium	*370*	*7100*	NA	NA	NA	NA	NA	NA	NA
Zinc	*1500*	*1500*	NA	NA	NA	NA	18.1	112	NA

* = site specific delineation criterion

Table I
Summary of Priority Pollutant Metals in Soil

	Client ID:	SB7	SB8	SB9	SB10	SB10	SB11	SB18	SB19
	Sample Depth:	12.4-12.9	13.0-13.5	11.8-12.3	11.1-11.6	15.6-16.1	6.6-7.1	9.2-9.7	10.2-10.7
	Elevation:	3.8 to 3.3	3.3 to 2.8	4.6 to 4.1	5.3 to 4.8	0.8 to 0.3	5.5 to 5.0	4.3 to 3.8	3.2 to 2.7
	Lab ID:	2171-007	2204-012	2204-015	2245-012	2245-013	2245-004	2526-002	2503-001
	Date Sampled:	3/27/02	3/28/02	3/28/02	3/29/02	3/29/02	3/29/02	04/09/02	04/08/02
Metals (ppm)	***USCC***	***RSCC***							
Aluminum	~	~	NA	NA	NA	3670	NA	7080	NA	NA
Antimony	*14*	*340*	NA	NA	NA	ND	NA	1.79	NA	NA
Arsenic	*20*	*100**	16.5	**223**	**183**	**5400**	**1040**	**365**	19.5	9.16
Barium	*700*	*47000*	NA	NA	NA	41.5	NA	95	NA	NA
Beryllium	*2*	*2*	NA	NA	NA	ND	NA	ND	NA	NA
Cadmium	*39*	*100*	NA	NA	NA	ND	NA	0.632	NA	NA
Calcium	~	~	NA	NA	NA	690	NA	1460	NA	NA
Chromium	~	~	NA	NA	NA	26.1	NA	26.4	NA	NA
Cobalt	~	~	NA	NA	NA	ND	NA	4.03	NA	NA
Copper	*600*	*600*	NA	NA	NA	33.3	NA	580	NA	NA
Iron	~	~	NA	NA	NA	17500	NA	14900	NA	NA
Lead	*400*	*600*	32.9	42.5	**1230**	98.7	NA	**411**	71.3	60.3
Magnesium	~	~	NA	NA	NA	876	NA	3390	NA	NA
Manganese	~	~	NA	NA	NA	49.5	NA	120	NA	NA
Mercury	*14*	*270*	NA	NA	NA	0.488	NA	0.321	NA	NA
Nickel	*250*	*2400*	NA	NA	NA	3.55	NA	8.44	NA	NA
Potassium	~	~	NA	NA	NA	980	NA	711	NA	NA
Selenium	*63*	*3100*	NA	NA	NA	4.15	NA	ND	NA	NA
Silver	*110*	*4100*	NA	NA	NA	ND	NA	0.680	NA	NA
Sodium	~	~	NA	NA	NA	184	NA	279	NA	NA
Thallium	*2*	*2*	NA	NA	NA	**3.27**	NA	**4.99**	NA	NA
Vanadium	*370*	*7100*	NA	NA	NA	10.2	NA	38.7	NA	NA
Zinc	*1500*	*1500*	NA	NA	NA	NA	NA	NA	NA	NA

* = site specific delineation criterion

Table I
Summary of Priority Pollutant Metals in Soil

	Client ID:	SB19	SB19	SB20	SB20	SB20	SB22	SB23
	Sample Depth:	15.6-16.1	21.5-22	7.8-8.3	15.4-15.9	22.9-23.4	6.8-7.3	14.4-14.9
	Elevation:	-2.2 to -2.7	-8.1 to -8.6	6.0 to 5.5	-1.6 to-2.1	-9.1 to -9.6	6.0 to 5.5	-1.6 to -2.1
	Lab ID:	2503-002	2503-003	2456-001	2456-002	2456-004	2370-007	2370-003
	Date Sampled:	04/08/02	04/08/02	4/5/02	4/5/02	4/5/02	4/3/02	4/3/02
Metals (ppm)	***USCC***	***RSCC***						
Aluminum	~	~	NA	NA	NA	NA	NA	NA	NA
Antimony	*14*	*340*	NA	NA	NA	NA	NA	NA	NA
Arsenic	*20*	*100**	4.10	2.36	**789**	**64.3**	7.51	**1280**	11.1
Barium	*700*	*47000*	NA	NA	NA	NA	NA	NA	NA
Beryllium	*2*	*2*	NA	NA	NA	NA	NA	NA	NA
Cadmium	*39*	*100*	NA	NA	NA	NA	NA	NA	NA
Calcium	~	~	NA	NA	NA	NA	NA	NA	NA
Chromium	~	~	NA	NA	NA	NA	NA	NA	NA
Cobalt	~	~	NA	NA	NA	NA	NA	NA	NA
Copper	*600*	*600*	NA	NA	NA	NA	NA	NA	NA
Iron	~	~	NA	NA	NA	NA	NA	NA	NA
Lead	*400*	*600*	6.61	4.62	**675**	35.2	5.90	**13000**	NA
Magnesium	~	~	NA	NA	NA	NA	NA	NA	NA
Manganese	~	~	NA	NA	NA	NA	NA	NA	NA
Mercury	*14*	*270*	NA	NA	NA	NA	NA	NA	NA
Nickel	*250*	*2400*	NA	NA	NA	NA	NA	NA	NA
Potassium	~	~	NA	NA	NA	NA	NA	NA	NA
Selenium	*63*	*3100*	NA	NA	NA	NA	NA	NA	NA
Silver	*110*	*4100*	NA	NA	NA	NA	NA	NA	NA
Sodium	~	~	NA	NA	NA	NA	NA	NA	NA
Thallium	*2*	*2*	NA	NA	NA	NA	NA	ND	NA
Vanadium	*370*	*7100*	NA	NA	NA	NA	NA	NA	NA
Zinc	*1500*	*1500*	NA	NA	NA	NA	NA	NA	NA

* = site specific delineation criterion

Table I
Summary of Priority Pollutant Metals in Soil

	Client ID:	SB 24	SB 24	SB 25	SB 25	SB26	SB 27	SB 27	SB 31
	Sample Depth:	6.1-6.6	14.4-14.9	1.2-1.7	3.2-3.7	11.1-11.6	4.4-4.9	14.4-14.9	11.6-12.1
	Elevation:	8.4 to 7.9	0.1 to -0.4	11 to 10.5	9.0 to 8.5	1.5 to 1.0	9.2 to 8.7	-0.8 to -1.3	5.3 to 4.8
	Lab ID:	2486-004	2486-005	2486-007	2486-008	2396-004	2486-002	2486-003	2486-012
	Date Sampled:	4/6/02	4/6/02	4/6/02	4/6/02	4/4/02	4/6/02	4/6/02	4/6/02
Metals (ppm)	***USCC***	***RSCC***							
Aluminum	~	~	NA	NA	NA	NA	NA	NA	NA	NA
Antimony	***14***	***340***	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	***20***	***100****	5.22	**200**	4.85	9.94	**27.1**	6.08	**173**	6.19
Barium	***700***	***47000***	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	***2***	***2***	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	***39***	***100***	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	~	~	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	~	~	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	~	~	NA	NA	NA	NA	NA	NA	NA	NA
Copper	***600***	***600***	NA	NA	NA	NA	NA	NA	NA	NA
Iron	~	~	NA	NA	NA	NA	NA	NA	NA	NA
Lead	***400***	***600***	121	NA	91.0	71.5	170	61.9	NA	NA
Magnesium	~	~	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	~	~	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	***14***	***270***	NA	NA	0.184	NA	NA	NA	NA	NA
Nickel	***250***	***2400***	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	~	~	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	***63***	***3100***	NA	NA	ND	NA	NA	NA	NA	NA
Silver	***110***	***4100***	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	~	~	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	***2***	***2***	ND	NA	NA	NA	NA	NA	NA	0.248
Vanadium	***370***	***7100***	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	***1500***	***1500***	NA	NA	ND	ND	ND	?	~	NA

* = site specific delineation criterion

Table I
Summary of Priority Pollutant Metals in Soil

		Client ID:	U15		FB032002		FB032202		FB032202
		Sample Depth:	10.0-10.5		--		--		--
		Elevation:	5.3 to 4.8		--		--		--
		Lab ID:	2204-017		1998-003		2077-001		2077-001
		Date Sampled:	3/28/02		3/20/02		3/22/02		3/22/02
Metals (ppm)	***USCC***	***RSCC***							
Aluminum	~	~	NA		ND		ND		ND
Antimony	*14*	*340*	NA		ND		ND		ND
Arsenic	*20*	*100**	**57.3**		ND		ND		ND
Barium	*700*	*47000*	NA		ND		ND		ND
Beryllium	*2*	*2*	NA		ND		ND		ND
Cadmium	*39*	*100*	NA		ND		ND		ND
Calcium	~	~	NA		ND		ND		ND
Chromium	~	~	NA		ND		ND		ND
Cobalt	~	~	NA		ND		ND		ND
Copper	*600*	*600*	NA		ND		ND		ND
Iron	~	~	NA		ND		ND		ND
Lead	*400*	*600*	18.0		ND		ND		ND
Magnesium	~	~	NA		ND		ND		ND
Manganese	~	~	NA		ND		ND		ND
Mercury	*14*	*270*	NA		ND		ND		ND
Nickel	*250*	*2400*	NA		ND		ND		ND
Potassium	~	~	NA		ND		ND		ND
Selenium	*63*	*3100*	NA		ND		ND		ND
Silver	*110*	*4100*	NA		ND		ND		ND
Sodium	~	~	NA		ND		ND		ND
Thallium	*2*	*2*	NA		ND		ND		ND
Vanadium	*370*	*7100*	NA		ND		ND		ND
Zinc	*1500*	*1500*	NA		ND		ND		ND

* = site specific delineation criterion

Table II

Summary of Volatile Organic Compounds in Soil

			Client ID:	C3(4)	C3(4)	C3(4)	C3(5)	C3(5)	C3(5)	C3(5)	C3(6)	C3(6)	C3(6)
			Sample Depth:	3.5-4	14.5-15	20-20.5	1.5-2	10-10.5	14.5-15	20-20.5	3.5-4	13.5-14	15.0-15.5
			Elevation:	8.8-8.3	-2.2 to -2.7	-7.7 to -8.2	10.8-10.3	2.3-1.8	-2.2 to -2.7	-7.7 to -8.2	8.4-7.9	-1.6 to -2.1	-3.1 to -3.6
			Lab ID:	2140-003	2140-004	2077-008	2140-005	2077-003	2077-004	2077-005	2140-008	2140-009	2035-005
			Date Sampled:	3/26/02	3/26/02	3/22/02	3/26/02	3/22/02	3/22/02	3/22/02	3/26/02	3/26/02	3/21/02
Volatiles (ppm)	*USCC*	*RSCC*	*IGWSCC*										
Dichlorodifluoromethane	~	~	~	ND	ND	NA	ND	ND	ND	NA	ND	ND	NA
Chloromethane	*520*	*1000*	*10*	ND	ND	NA	ND	ND	ND	NA	ND	ND	NA
Vinyl Chloride	*2*	*7*	*10*	ND	ND	NA	ND	ND	ND	NA	ND	ND	NA
Bromomethane	*79*	*1000*	*1*	ND	ND	NA	ND	ND	ND	NA	ND	ND	NA
Chloroethane	~	~	~	ND	ND	NA	ND	ND	ND	NA	ND	ND	NA
Trichlorofluoromethane	~	~	~	ND	ND	NA	ND	ND	ND	NA	ND	ND	NA
1,1-Dichloroethene	*8*	*150*	*10*	ND	ND	NA	ND	ND	ND	NA	ND	ND	NA
Acetone	*1000*	*1000*	*100*	ND	ND	NA	ND	ND	ND	NA	ND	ND	NA
Carbon Disulfide	~	~	~	ND	ND	NA	0.391	ND	ND	NA	ND	ND	NA
Methylene Chloride	*49*	*210*	*1*	ND	ND	NA	ND	ND	ND	NA	ND	ND	NA
trans-1,2-Dichloroethene	*1000*	*1000*	*50*	ND	ND	NA	ND	ND	ND	NA	ND	ND	NA
Methyl-t-Butyl Ether(MTBE)	~	~	~	ND	ND	NA	ND	ND	ND	NA	ND	ND	NA
1,1-Dichloroethane	*570*	*1000*	*10*	ND	ND	NA	ND	ND	ND	NA	ND	ND	NA
cis-1,2-Dichloroethene	*79*	*1000*	*1*	ND	ND	NA	ND	ND	ND	NA	ND	ND	NA
2-Butanone(MEK)	*1000*	*1000*	*50*	ND	ND	NA	ND	ND	ND	NA	ND	ND	NA
Bromochloromethane	~	~	~	ND	ND	NA	ND	ND	ND	NA	ND	ND	NA
Chloroform	*19*	*28*	*1*	ND	ND	NA	ND	ND	ND	NA	ND	ND	NA
1,1,1-Trichloroethane	*210*	*1000*	*50*	ND	ND	NA	ND	ND	ND	NA	ND	ND	NA
Carbon Tetrachloride	*2*	*4*	*1*	ND	ND	NA	ND	ND	ND	NA	ND	ND	NA
1,2-Dichloroethane(EDC)	*6*	*24*	*1*	ND	ND	NA	ND	ND	ND	NA	ND	ND	NA
Benzene	*3*	*13*	*1*	0.251	ND	ND	0.958	ND	ND	ND	0.213	**2.01**	**1.35**
Trichloroethene	*23*	*54*	*1*	ND	ND	NA	ND	ND	ND	NA	ND	ND	NA
1,2-Dichloropropane	*10*	*43*	~	ND	ND	NA	ND	ND	ND	NA	ND	ND	NA
Bromodichloromethane	*11*	*46*	*1*	ND	ND	NA	ND	ND	ND	NA	ND	ND	NA
cis-1,3-Dichloropropene	~	~	~	ND	ND	NA	ND	ND	ND	NA	ND	ND	NA
4-Methyl-2-pentanone(MIBK)	*1000*	*1000*	*50*	ND	ND	NA	ND	ND	ND	NA	ND	ND	NA
Toluene	*1000*	*1000*	*500*	1.27	0.180	NA	1.22	0.389 J	0.539	NA	0.164	2.92	NA
trans-1,3-Dichloropropene	~	~	~	ND	ND	NA	ND	ND	ND	NA	ND	ND	NA
1,1,2-Trichloroethane	*22*	*420*	*1*	ND	ND	NA	ND	ND	ND	NA	ND	ND	NA
Tetrachloroethene	*4*	*6*	*1*	ND	ND	NA	ND	ND	ND	NA	ND	ND	NA
2-Hexanone	~	~	~	ND	ND	NA	ND	ND	ND	NA	ND	ND	NA
Dibromochloromethane	*110*	*1000*	*1*	ND	ND	NA	ND	ND	ND	NA	ND	ND	NA
1,2-Dibromoethane(EDB)	~	~	~	ND	ND	NA	ND	ND	ND	NA	ND	ND	NA
Chlorobenzene	*37*	*680*	*1*	ND	ND	NA	ND	ND	ND	NA	ND	ND	NA
Ethylbenzene	*1000*	*1000*	*100*	1.08	ND	NA	1.57	0.975	0.903	NA	0.151	1.08	NA
Total Xylenes	*410*	*1000*	*67*	*2.50*	*0.927*	*NA*	*6.86*	*4.66*	3.61	NA	*0.533*	*4.64*	NA
Styrene	*23*	*97*	*100*	ND	ND	NA	ND	ND	ND	NA	ND	ND	NA
Bromoform	*86*	*370*	*1*	ND	ND	NA	ND	ND	ND	NA	ND	ND	NA
Isopropylbenzene	~	~	~	0.278	ND	NA	0.268	ND	ND	NA	ND	0.660	NA
1,1,2,2-Tetrachloroethane	*34*	*70*	*1*	ND	ND	NA	ND	ND	ND	NA	ND	ND	NA
1,3-Dichlorobenzene	*5100*	*10000*	*100*	ND	ND	NA	ND	ND	ND	NA	ND	ND	NA
1,4-Dichlorobenzene	*570*	*10000*	*100*	ND	ND	NA	ND	ND	ND	NA	ND	ND	NA
1,2-Dichlorobenzene	*5100*	*10000*	*50*	ND	ND	NA	ND	ND	ND	NA	ND	ND	NA
1,2-Dibromo-3-chloropropane	~	~	~	ND	ND	NA	ND	ND	ND	NA	ND	ND	NA
1,2,4-Trichlorobenzene	*68*	*1200*	*100*	ND	ND	NA	ND	ND	ND	NA	ND	ND	NA
1,2,3-Trichlorobenzene	~	~	~	ND	ND	NA	ND	ND	ND	NA	ND	ND	NA
1,1,2-Trichloro-1,2,2-trifluoroethane	~	~	~	ND	ND	NA	ND	ND	ND	NA	ND	ND	NA
Methyl Acetate	~	~	~	ND	ND	NA	ND	ND	ND	NA	ND	ND	NA
Cyclohexane	~	~	~	ND	ND	NA	ND	ND	ND	NA	ND	ND	NA
Methylcyclohexane	~	~	~	ND	ND	NA	ND	ND	ND	NA	ND	ND	NA
TOTAL TARGETED VOCs	*NA*	*NA*	*NA*	5.38	1.11	NA	11.3	6.02 J	5.05	NA	1.06	11.3	NA
TOTAL TICs	*NA*	*NA*	*NA*	186	3.13	NA	157	106	18.0	NA	9.96	49.9	NA
TOTAL VOCs & TICs	*NA*	*NA*	*NA*	191	4.24	NA	*169*	112 J	23.0	NA	*11.0*	*61.3*	NA

Table II
Summary of Volatile Organic Compounds in Soil

			Client ID:	C3(6)	C3(10)	C3(10)	C3(10)	C3(14)	C3(14)	C3(14)	C3(14)	C3(15)	C3(15)
			Sample Depth:	21.5-22	1-1.5	7.5-8	15-15.5	1.5-2	8.5-9	16.5-17.0	21.5-22	1.5-2	10.5-11
			Elevation:	-9.6 to -10.1	12.1 to 11.6	5.6 to 5.1	-1.9 to -2.4	11.2 to 10.7	4.2 to 3.7	-3.8 to -4.3	-8.8 to -9.3	11.0 to 10.5	2.0 to 1.5
			Lab ID:	2035-006	2113-001	2113-003	2113-004	2113-018	2113-020	2035-001	2035-002	2113-015	2113-017
			Date Sampled:	3/21/02	3/25/02	3/25/02	3/25/02	3/25/02	3/25/02	3/20/02	3/21/02	3/25/02	3/25/02
Volatiles (ppm)	*USCC*	*RSCC*	*IGWSCC*										
Dichlorodifluoromethane	~	~	~	NA	ND	ND	NA	ND	ND	NA	NA	ND	ND
Chloromethane	*520*	*1000*	*10*	NA	ND	ND	NA	ND	ND	NA	NA	ND	ND
Vinyl Chloride	*2*	*7*	*10*	NA	ND	ND	NA	ND	ND	NA	NA	ND	ND
Bromomethane	*79*	*1000*	*1*	NA	ND	ND	NA	ND	ND	NA	NA	ND	ND
Chloroethane	~	~	~	NA	ND	ND	NA	ND	ND	NA	NA	ND	ND
Trichlorofluoromethane	~	~	~	NA	ND	ND	NA	ND	ND	NA	NA	ND	ND
1,1-Dichloroethene	*8*	*150*	*10*	NA	ND	ND	NA	ND	ND	NA	NA	ND	ND
Acetone	*1000*	*1000*	*100*	NA	ND	ND	NA	ND	ND	NA	NA	ND	ND
Carbon Disulfide	~	~	~	NA	ND	ND	NA	ND	ND	NA	NA	ND	ND
Methylene Chloride	*49*	*210*	*1*	NA	ND	ND	NA	ND	ND	NA	NA	ND	ND
trans-1,2-Dichloroethene	*1000*	*1000*	*50*	NA	ND	ND	NA	ND	ND	NA	NA	ND	ND
Methyl-t-Butyl Ether(MTBE)	~	~	~	NA	ND	ND	NA	ND	ND	NA	NA	ND	ND
1,1-Dichloroethane	*570*	*1000*	*10*	NA	ND	ND	NA	ND	ND	NA	NA	ND	ND
cis-1,2-Dichloroethene	*79*	*1000*	*1*	NA	ND	ND	NA	ND	ND	NA	NA	ND	ND
2-Butanone(MEK)	*1000*	*1000*	*50*	NA	ND	ND	NA	ND	ND	NA	NA	ND	ND
Bromochloromethane	~	~	~	NA	ND	ND	NA	ND	ND	NA	NA	ND	ND
Chloroform	*19*	*28*	*1*	NA	ND	ND	NA	ND	ND	NA	NA	ND	ND
1,1,1-Trichloroethane	*210*	*1000*	*50*	NA	ND	ND	NA	ND	ND	NA	NA	ND	ND
Carbon Tetrachloride	*2*	*4*	*1*	NA	ND	ND	NA	ND	ND	NA	NA	ND	ND
1,2-Dichloroethane(EDC)	*6*	*24*	*1*	NA	ND	ND	NA	ND	ND	NA	NA	ND	ND
Benzene	*3*	*13*	*1*	ND	ND	ND	0.805 J	ND	ND	ND	ND	ND	ND
Trichloroethene	*23*	*54*	*1*	NA	ND	ND	NA	ND	ND	NA	NA	ND	ND
1,2-Dichloropropane	*10*	*43*	~	NA	ND	ND	NA	ND	ND	NA	NA	ND	ND
Bromodichloromethane	*11*	*46*	*1*	NA	ND	ND	NA	ND	ND	NA	NA	ND	ND
cis-1,3-Dichloropropene	~	~	~	NA	ND	ND	NA	ND	ND	NA	NA	ND	ND
4-Methyl-2-pentanone(MIBK)	*1000*	*1000*	*50*	NA	ND	ND	NA	ND	ND	NA	NA	ND	ND
Toluene	*1000*	*1000*	*500*	NA	ND	ND	NA	ND	ND	NA	NA	ND	ND
trans-1,3-Dichloropropene	~	~	~	NA	ND	ND	NA	ND	ND	NA	NA	ND	ND
1,1,2-Trichloroethane	*22*	*420*	*1*	NA	ND	ND	NA	ND	ND	NA	NA	ND	ND
Tetrachloroethene	*4*	*6*	*1*	NA	ND	ND	NA	ND	ND	NA	NA	ND	ND
2-Hexanone	~	~	~	NA	ND	ND	NA	ND	ND	NA	NA	ND	ND
Dibromochloromethane	*110*	*1000*	*1*	NA	ND	ND	NA	ND	ND	NA	NA	ND	ND
1,2-Dibromoethane(EDB)	~	~	~	NA	ND	ND	NA	ND	ND	NA	NA	ND	ND
Chlorobenzene	*37*	*680*	*1*	NA	ND	ND	NA	ND	ND	NA	NA	ND	ND
Ethylbenzene	*1000*	*1000*	*100*	NA	ND	ND	NA	ND	ND	NA	NA	ND	ND
Total Xylenes	*410*	*1000*	*67*	NA	ND	ND	NA	ND	ND	NA	NA	ND	ND
Styrene	*23*	*97*	*100*	NA	ND	ND	NA	ND	ND	NA	NA	ND	ND
Bromoform	*86*	*370*	*1*	NA	ND	ND	NA	ND	ND	NA	NA	ND	ND
Isopropylbenzene	~	~	~	NA	ND	ND	NA	ND	ND	NA	NA	ND	ND
1,1,2,2-Tetrachloroethane	*34*	*70*	*1*	NA	ND	ND	NA	ND	ND	NA	NA	ND	ND
1,3-Dichlorobenzene	*5100*	*10000*	*100*	NA	ND	ND	NA	ND	ND	NA	NA	ND	ND
1,4-Dichlorobenzene	*570*	*10000*	*100*	NA	ND	ND	NA	ND	ND	NA	NA	ND	ND
1,2-Dichlorobenzene	*5100*	*10000*	*50*	NA	ND	ND	NA	ND	ND	NA	NA	ND	ND
1,2-Dibromo-3-chloropropane	~	~	~	NA	ND	ND	NA	ND	ND	NA	NA	ND	ND
1,2,4-Trichlorobenzene	*68*	*1200*	*100*	NA	ND	ND	NA	ND	ND	NA	NA	ND	ND
1,2,3-Trichlorobenzene	~	~	~	NA	ND	ND	NA	ND	ND	NA	NA	ND	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	~	~	~	NA	ND	ND	NA	ND	ND	NA	NA	ND	ND
Methyl Acetate	~	~	~	NA	1.86	ND	NA	ND	ND	NA	NA	ND	ND
Cyclohexane	~	~	~	NA	ND	ND	NA	ND	ND	NA	NA	ND	ND
Methylcyclohexane	~	~	~	NA	ND	ND	NA	ND	ND	NA	NA	ND	ND
TOTAL TARGETED VOCs	*NA*	*NA*	*NA*	NA	1.86	ND	NA	ND	ND	NA	NA	ND	ND
TOTAL TICs	*NA*	*NA*	*NA*	NA	ND	ND	NA	ND	ND	NA	NA	ND	ND
TOTAL VOCs & TICs	*NA*	*NA*	*NA*	NA	1.86	ND	NA	ND	ND	NA	NA	ND	ND

Table II

Summary of Volatile Organic Compounds in Soil

			Client ID:	C3(18)	C3(18)	C3(19)	C3(19)	C3(19)	SB10	SB11	FB032002	FB032202
			Sample Depth:	1.5-2	13.5-14	3.5-4	7.5-8	15-15.5	11.1-11.6	6.6-7.1	--	--
			Elevation:	11.2 to 10.7	-0.8 to -1.3	8.6 to 8.1	4.6 to 4.1	-2.9 to -3.4	5.3 to 5.8	5.5 to 5.0	--	--
			Lab ID:	2113-008	2113-010	2113-022	2113-023	2035-003	2245-012	2245-004	1998-003	2077-001
			Date Sampled:	3/25/02	3/25/02	3/25/02	3/25/02	3/21/02	3/29/02	3/29/02	3/20/02	3/22/02
Volatiles (ppm)	***USCC***	***RSCC***	***IGWSCC***									
Dichlorodifluoromethane	~	~	~	ND	ND	ND	ND	NA	ND	ND	ND	ND
Chloromethane	*520*	*1000*	*10*	ND	ND	ND	ND	NA	ND	ND	ND	ND
Vinyl Chloride	*2*	*7*	*10*	ND	ND	ND	ND	NA	ND	ND	ND	ND
Bromomethane	*79*	*1000*	*1*	ND	ND	ND	ND	NA	ND	ND	ND	ND
Chloroethane	~	~	~	ND	ND	ND	ND	NA	ND	ND	ND	ND
Trichlorofluoromethane	~	~	~	ND	ND	ND	ND	NA	ND	ND	ND	ND
1,1-Dichloroethene	*8*	*150*	*10*	ND	ND	ND	ND	NA	ND	ND	ND	ND
Acetone	*1000*	*1000*	*100*	ND	ND	ND	ND	NA	ND	ND	ND	ND
Carbon Disulfide	~	~	~	ND	ND	ND	ND	NA	ND	ND	ND	ND
Methylene Chloride	*49*	*210*	*1*	ND	ND	ND	ND	NA	ND	ND	ND	ND
trans-1,2-Dichloroethene	*1000*	*1000*	*50*	ND	ND	ND	ND	NA	ND	ND	ND	ND
Methyl-t-Butyl Ether(MTBE)	~	~	~	ND	ND	ND	ND	NA	ND	ND	ND	ND
1,1-Dichloroethane	*570*	*1000*	*10*	ND	ND	ND	ND	NA	ND	ND	ND	ND
cis-1,2-Dichloroethene	*79*	*1000*	*1*	ND	ND	ND	ND	NA	ND	ND	ND	ND
2-Butanone(MEK)	*1000*	*1000*	*50*	ND	ND	ND	ND	NA	ND	ND	ND	ND
Bromochloromethane	~	~	~	ND	ND	ND	ND	NA	ND	ND	ND	ND
Chloroform	*19*	*28*	*1*	ND	ND	ND	ND	NA	ND	ND	ND	ND
1,1,1-Trichloroethane	*210*	*1000*	*50*	ND	ND	ND	ND	NA	ND	ND	ND	ND
Carbon Tetrachloride	*2*	*4*	*1*	ND	ND	ND	ND	NA	ND	ND	ND	ND
1,2-Dichloroethane(EDC)	*6*	*24*	*1*	ND	ND	ND	ND	NA	ND	ND	ND	ND
Benzene	*3*	*13*	*1*	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	*23*	*54*	*1*	ND	ND	ND	ND	NA	ND	ND	ND	ND
1,2-Dichloropropane	*10*	*43*	~	ND	ND	ND	ND	NA	ND	ND	ND	ND
Bromodichloromethane	*11*	*46*	*1*	ND	ND	ND	ND	NA	ND	ND	ND	ND
cis-1,3-Dichloropropene	~	~	~	ND	ND	ND	ND	NA	ND	ND	ND	ND
4-Methyl-2-pentanone(MIBK)	*1000*	*1000*	*50*	ND	ND	ND	ND	NA	ND	ND	ND	ND
Toluene	*1000*	*1000*	*500*	ND	ND	ND	ND	NA	ND	ND	ND	ND
trans-1,3-Dichloropropene	~	~	~	ND	ND	ND	ND	NA	ND	ND	ND	ND
1,1,2-Trichloroethane	*22*	*420*	*1*	ND	ND	ND	ND	NA	ND	ND	ND	ND
Tetrachloroethene	*4*	*6*	*1*	ND	ND	ND	ND	NA	ND	ND	ND	ND
2-Hexanone	~	~	~	ND	ND	ND	ND	NA	ND	ND	ND	ND
Dibromochloromethane	*110*	*1000*	*1*	ND	ND	ND	ND	NA	ND	ND	ND	ND
1,2-Dibromoethane(EDB)	~	~	~	ND	ND	ND	ND	NA	ND	ND	ND	ND
Chlorobenzene	*37*	*680*	*1*	ND	ND	ND	ND	NA	ND	ND	ND	ND
Ethylbenzene	*1000*	*1000*	*100*	ND	ND	ND	ND	NA	ND	ND	ND	ND
Total Xylenes	*410*	*1000*	*67*	ND	ND	ND	ND	NA	ND	ND	ND	ND
Styrene	*23*	*97*	*100*	ND	ND	ND	ND	NA	ND	ND	ND	ND
Bromoform	*86*	*370*	*1*	ND	ND	ND	ND	NA	ND	ND	ND	ND
Isopropylbenzene	~	~	~	ND	ND	ND	ND	NA	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	*34*	*70*	*1*	ND	ND	ND	ND	NA	ND	ND	ND	ND
1,3-Dichlorobenzene	*5100*	*10000*	*100*	ND	ND	ND	ND	NA	ND	ND	ND	ND
1,4-Dichlorobenzene	*570*	*10000*	*100*	ND	ND	ND	ND	NA	ND	ND	ND	ND
1,2-Dichlorobenzene	*5100*	*10000*	*50*	ND	ND	ND	ND	NA	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	~	~	~	ND	ND	ND	ND	NA	ND	ND	ND	ND
1,2,4-Trichlorobenzene	*68*	*1200*	*100*	ND	ND	ND	ND	NA	ND	ND	ND	ND
1,2,3-Trichlorobenzene	~	~	~	ND	ND	ND	ND	NA	ND	ND	ND	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	~	~	~	ND	ND	ND	ND	NA	ND	ND	ND	ND
Methyl Acetate	~	~	~	ND	ND	ND	ND	NA	ND	ND	ND	ND
Cyclohexane	~	~	~	ND	ND	ND	ND	NA	ND	ND	ND	ND
Methylcyclohexane	~	~	~	ND	ND	ND	ND	NA	ND	ND	ND	ND
TOTAL TARGETED VOCs	*NA*	*NA*	*NA*	ND	ND	ND	ND	NA	ND	ND	ND	ND
TOTAL TICs	*NA*	*NA*	*NA*	ND	ND	ND	ND	NA	ND	ND	ND	ND
TOTAL VOCs & TICs	*NA*	*NA*	*NA*	ND	ND	ND	ND	NA	ND	ND	ND	ND

Table III
Summary of Semi-Volatile Compounds in Soil

			Client ID:	C3(4)	C3(4)	C3(4)	C3(5)	C3(5)
			Sample Depth:	3.5-4	14.5-15	20-20.5	1.5-2	3.5-4
			Elevation:	8.8 to 8.3	-2.2 to -2.7	-7.7 to -8.2	10.8 to 10.3	8.8 to 8.3
			Lab ID:	2140-003	2140-004	2077-008	2140-005	2140-006
			Date Sampled:	3/26/02	3/26/02	3/22/02	3/26/02	3/26/02
Semivolatiles - BNA (ppm)	***USCC***	***RSCC***	***IGWSCC***					
Benzaldehyde	~	~	~	ND	ND	NA	ND	NA
Phenol	*10000*	*10000*	*50*	ND	ND	NA	ND	NA
bis(2-Chloroethyl)ether	*0.66*	*3*	*10*	ND	ND	NA	ND	NA
2-Chlorophenol	*280*	*5200*	*10*	ND	ND	NA	ND	NA
2-Methylphenol	*2800*	*10000*	~	ND	ND	NA	ND	NA
bis(2-chloroisopropyl)ether	*2300*	*10000*	*10*	ND	ND	NA	ND	NA
4-Methylphenol	*2800*	*10000*		ND	ND	NA	ND	NA
N-Nitroso-di-n-propylamine	*0.66*	*0.66*	*10*	ND	ND	NA	ND	NA
Acetophenone	~	~	~	ND	ND	NA	ND	NA
Hexachloroethane	*6*	*100*	*100*	ND	ND	NA	ND	NA
Nitrobenzene	*28*	*520*	*10*	ND	ND	NA	ND	NA
Isophorone	*1100*	*10000*	*50*	ND	ND	NA	ND	NA
2-Nitrophenol	~	~	~	ND	ND	NA	ND	NA
2,4-Dimethylphenol	*1100*	*10000*	*10*	ND	ND	NA	ND	NA
bis(2-Chloroethoxy)methane	~	~	~	ND	ND	NA	ND	NA
2,4-Dichlorophenol	*170*	*3100*	*10*	ND	ND	NA	ND	NA
Naphthalene	*230*	*4200*	*100*	**465**	6.77	NA	0.671	NA
4-Chloroaniline	*230*	*4200*	~	ND	ND	NA	ND	NA
Hexachlorobutadiene	*1*	*21*	*100*	ND	ND	NA	ND	NA
Caprolactam	~	~	~	ND	ND	NA	ND	NA
4-Chloro-3-methylphenol	*10000*	*10000*	*100*	ND	ND	NA	ND	NA
2-Methylnaphthalene	~	~	~	120	2.66	NA	0.414	NA
Hexachlorocyclopentadiene	*400*	*7300*	*100*	ND	ND	NA	ND	NA
2,4,6-Trichlorophenol	*62*	*270*	*10*	ND	ND	NA	ND	NA
2,4,5-Trichlorophenol	*5600*	*10000*	*50*	ND	ND	NA	ND	NA
1-1'-Biphenyl	~	~	~	26.5	0.530	NA	0.133	NA
2-Chloronaphthalene	~	~	~	ND	ND	NA	ND	NA
2-Nitroaniline	~	~	~	ND	ND	NA	ND	NA
Dimethylphthalate	*10000*	*10000*	*50*	ND	ND	NA	ND	NA
2,6-Dinitrotoluene				ND	ND	NA	ND	NA
Acenaphthylene	~	~	~	ND	0.174	NA	0.205	NA
3-Nitroaniline	~	~	~	ND	ND	NA	ND	NA
Acenaphthene	*3400*	*10000*	*100*	**686**	2.14	NA	1.21	NA
2,4-Dinitrophenol	*110*	*2100*	*10*	ND	ND	NA	ND	NA
4-Nitrophenol	~	~	~	ND	ND	NA	ND	NA
2,4-Dinitrotoluene				ND	ND	NA	ND	NA
Dibenzofuran	~	~	~	249	1.32	NA	0.557	NA
Diethylphthalate	*10000*	*10000*	*50*	ND	ND	NA	ND	NA
Fluorene	*2300*	*10000*	*100*	**519**	2.17	NA	1.13	NA
4-Chlorophenyl-phenylether	~	~	~	ND	ND	NA	ND	NA
4-Nitroaniline	~	~	~	ND	ND	NA	ND	NA
1,2,4,5-Tetrachlorobenzene	~	~	~	ND	ND	NA	ND	NA
4,6-Dinitro-2-methylphenol	~	~	~	ND	ND	NA	ND	NA
N-Nitrosodiphenylamine	*140*	*600*	*100*	ND	ND	NA	ND	NA
4-Bromophenyl-phenylether	~	~	~	ND	ND	NA	ND	NA
Hexachlorobenzene	*0.66*	*2*	*100*	ND	ND	NA	ND	NA
Atrazine	~	~	~	ND	ND	NA	ND	NA
Pentachlorophenol	*6*	*24*	*100*	ND	ND	NA	ND	NA
Phenanthrene	~	~	~	3210	9.61	NA	6.32	NA
Anthracene	*10000*	*10000*	*100*	**720**	2.24	NA	2.20	NA
Carbazole	~	~	~	611	0.917	NA	0.792	NA
Di-n-butylphthalate	*5700*	*10000*	*100*	ND	ND	NA	ND	NA
Fluoranthene	*2300*	*10000*	*100*	**4590**	8.09	NA	9.70	NA
Pyrene	*1700*	*10000*	*100*	**3860**	7.81	NA	7.97	NA
Butylbenzylphthalate	*1100*	*10000*	*100*	ND	ND	NA	ND	NA
3,3'-Dichlorobenzidine	*2*	*6*	*100*	ND	ND	NA	ND	NA
Benzo[a]anthracene	*0.9*	*4*	*500*	**2710**	**3.72**	NA	**5.23**	NA
Chrysene	*9*	*40*	*500*	**2880**	4.31	NA	5.20	NA
bis(2-Ethylhexyl)phthalate	*49*	*210*	*100*	ND	0.281	NA	0.141	NA
Di-n-octylphthalate	*1100*	*10000*	*100*	ND	ND	NA	ND	NA
Benzo[b]fluoranthene	*0.9*	*4*	*50*	**3010**	**3.65**	NA	**5.37**	NA
Benzo[k]fluoranthene	*0.9*	*4*	*500*	**1190**	**3.57**	NA	**1.90**	NA
Benzo[a]pyrene	*0.66*	*0.66*	*100*	**2360**	**4.23**	NA	**4.11**	NA
Indeno[1,2,3-cd]pyrene	*0.9*	*4*	*500*	**1530**	**2.47**	NA	2.62	NA
Dibenz[a,h]anthracene	*0.66*	*0.66*	*100*	**505**	**1.07**	NA	0.831	NA
Benzo[g,h,i]perylene	~	~	~	2060	2.80	NA	3.14	NA
TOTAL BNAs	*NA*	*NA*	*NA*	31300	70.5	NA	59.8	NA
TOTAL TICs	*NA*	*NA*	*NA*	7510	48.0	NA	8.43	NA
TOTAL BNs & TICs	*NA*	*NA*	*NA*	38800	119	NA	68.3	NA

Table III
Summary of Semi-Volatile Compounds in Soil

			Client ID:	C3(5)		C3(5)		C3(5)	C3(6)	C3(6)
			Sample Depth:	10-10.5		14.5-15		20-20.5	3.5-4	13.5-14
			Elevation:	2.3 to 2.8		-2.2 to -2.7		-7.7 to -8.2	8.4 to 7.9	- 1.6 to -2.1
			Lab ID:	2077-003		2077-004		2077-005	2140-008	2140-009
			Date Sampled:	3/22/02		3/22/02		3/22/02	3/26/02	3/26/02
Semivolatiles - BNA (ppm)	***USCC***	***RSCC***	***IGWSCC***							
Benzaldehyde	~	~	~	ND		ND		NA	ND	ND
Phenol	*10000*	*10000*	*50*	ND		ND		NA	ND	0.431
bis(2-Chloroethyl)ether	*0.66*	*3*	*10*	ND		ND		NA	ND	ND
2-Chlorophenol	*280*	*5200*	*10*	ND		ND		NA	ND	ND
2-Methylphenol	*2800*	*10000*	~	ND		ND		NA	ND	ND
bis(2-chloroisopropyl)ether	*2300*	*10000*	*10*	ND		ND		NA	ND	ND
4-Methylphenol	*2800*	*10000*		ND		ND		NA	ND	0.934
N-Nitroso-di-n-propylamine	*0.66*	*0.66*	*10*	ND		ND		NA	ND	ND
Acetophenone	~	~	~	ND		ND		NA	ND	ND
Hexachloroethane	*6*	*100*	*100*	ND		ND		NA	ND	ND
Nitrobenzene	*28*	*520*	*10*	ND		ND		NA	ND	ND
Isophorone	*1100*	*10000*	*50*	ND		ND		NA	ND	ND
2-Nitrophenol	~	~	~	ND		ND		NA	ND	ND
2,4-Dimethylphenol	*1100*	*10000*	*10*	ND		ND		NA	ND	ND
bis(2-Chloroethoxy)methane	~	~	~	ND		ND		NA	ND	ND
2,4-Dichlorophenol	*170*	*3100*	*10*	ND		ND		NA	ND	ND
Naphthalene	*230*	*4200*	*100*	**912**		**306**		ND	2.07	9.90
4-Chloroaniline	*230*	*4200*	~	ND		ND		NA	ND	ND
Hexachlorobutadiene	*1*	*21*	*100*	ND		ND		NA	ND	ND
Caprolactam	~	~	~	ND		ND		NA	ND	ND
4-Chloro-3-methylphenol	*10000*	*10000*	*100*	ND		ND		NA	ND	ND
2-Methylnaphthalene	~	~	~	646		196		NA	1.32	3.18
Hexachlorocyclopentadiene	*400*	*7300*	*100*	ND		ND		NA	ND	ND
2,4,6-Trichlorophenol	*62*	*270*	*10*	ND		ND		NA	ND	ND
2,4,5-Trichlorophenol	*5600*	*10000*	*50*	ND		ND		NA	ND	ND
1-1'-Biphenyl	~	~	~	136		38.6		NA	0.319	0.878
2-Chloronaphthalene	~	~	~	ND		ND		NA	ND	ND
2-Nitroaniline	~	~	~	ND		ND		NA	ND	ND
Dimethylphthalate	*10000*	*10000*	*50*	ND		ND		NA	ND	ND
2,6-Dinitrotoluene				ND		ND		NA	ND	ND
Acenaphthylene	~	~	~	35.8		13.0		ND	0.216	0.252
3-Nitroaniline	~	~	~	ND		ND		NA	ND	ND
Acenaphthene	*3400*	*10000*	*100*	**325**		**118**		ND	1.27	2.74
2,4-Dinitrophenol	*110*	*2100*	*10*	ND		ND		NA	ND	ND
4-Nitrophenol	~	~	~	ND		ND		NA	ND	ND
2,4-Dinitrotoluene				ND		ND		NA	ND	ND
Dibenzofuran	~	~	~	279		87.4		NA	0.987	2.48
Diethylphthalate	*10000*	*10000*	*50*	ND		ND		NA	ND	ND
Fluorene	*2300*	*10000*	*100*	**291**		**124**		ND	1.75	4.06
4-Chlorophenyl-phenylether	~	~	~	ND		ND		NA	ND	ND
4-Nitroaniline	~	~	~	ND		ND		NA	ND	ND
1,2,4,5-Tetrachlorobenzene	~	~	~	ND		ND		NA	ND	ND
4,6-Dinitro-2-methylphenol	~	~	~	ND		ND		NA	ND	ND
N-Nitrosodiphenylamine	*140*	*600*	*100*	ND		ND		NA	ND	ND
4-Bromophenyl-phenylether	~	~	~	ND		ND		NA	ND	ND
Hexachlorobenzene	*0.66*	*2*	*100*	ND		ND		NA	ND	ND
Atrazine	~	~	~	ND		ND		NA	ND	ND
Pentachlorophenol	*6*	*24*	*100*	ND		ND		NA	ND	ND
Phenanthrene	~	~	~	583		264		ND	6.35	12.0
Anthracene	*10000*	*10000*	*100*	**220**		79.3		0.091	2.52	3.19
Carbazole	~	~	~	39.5		12.6		NA	0.765	0.825
Di-n-butylphthalate	*5700*	*10000*	*100*	ND		ND		NA	ND	ND
Fluoranthene	*2300*	*10000*	*100*	**302**		**141**		0.306	6.98	6.89
Pyrene	*1700*	*10000*	*100*	**198**		**108**		0.213	5.56	6.29
Butylbenzylphthalate	*1100*	*10000*	*100*	ND		ND		NA	ND	ND
3,3'-Dichlorobenzidine	*2*	*6*	*100*	ND		ND		NA	ND	ND
Benzo[a]anthracene	*0.9*	*4*	*500*	**74.3**		**35.8**		0.083	3.19	**2.41**
Chrysene	*9*	*40*	*500*	**68.7**		**33.4**		0.073	3.19	2.76
bis(2-Ethylhexyl)phthalate	*49*	*210*	*100*	ND		ND		NA	0.241	0.337
Di-n-octylphthalate	*1100*	*10000*	*100*	ND		ND		NA	ND	ND
Benzo[b]fluoranthene	*0.9*	*4*	*50*	**45.0**		**17.6**		ND	**2.88**	**1.45**
Benzo[k]fluoranthene	*0.9*	*4*	*500*	**18.2**		**22.4**		ND	**1.31**	**2.24**
Benzo[a]pyrene	*0.66*	*0.66*	*100*	**36.0**		**24.5**		ND	**2.33**	**2.18**
Indeno[1,2,3-cd]pyrene	*0.9*	*4*	*500*	**18.2**		**10.4**		ND	**1.46**	**1.05**
Dibenz[a,h]anthracene	*0.66*	*0.66*	*100*	**5.36**	J	**4.14**		ND	0.457	0.489
Benzo[g,h,i]perylene	~	~	~	22.1		10.5		ND	1.80	1.23
TOTAL BNAs	*NA*	*NA*	*NA*	4260	J	1650		NA	47.0	68.2
TOTAL TICs	*NA*	*NA*	*NA*	1820		179		NA	5.58	4.88
TOTAL BNs & TICs	*NA*	*NA*	*NA*	6070	J	1830		NA	52.5	73.1

Table III
Summary of Semi-Volatile Compounds in Soil

			Client ID:	C3(6)		C3(6)		C3(10)		C3(10)		C3(10)	
			Sample Depth:	15.0-15.5		21.5-22		1-1.5		7.5-8		15-15.5	
			Elevation:	-3.1 to -3.6		-9.6 to -10.1		12.1 to 11.6		5.6 to 5.1		-1.9 to -2.4	
			Lab ID:	2035-005		2035-006		2113-001		2113-003		2113-004	
			Date Sampled:	3/21/02		3/21/02		3/25/02		3/25/02		3/25/02	
Semivolatiles - BNA (ppm)	***USCC***	***RSCC***	***IGWSCC***										
Benzaldehyde	~	~	~	NA		NA		ND		ND		NA	
Phenol	*10000*	*10000*	*50*	NA		NA		ND		ND		NA	
bis(2-Chloroethyl)ether	*0.66*	*3*	*10*	NA		NA		ND		ND		NA	
2-Chlorophenol	*280*	*5200*	*10*	NA		NA		ND		ND		NA	
2-Methylphenol	*2800*	*10000*	~	NA		NA		ND		ND		NA	
bis(2-chloroisopropyl)ether	*2300*	*10000*	*10*	NA		NA		ND		ND		NA	
4-Methylphenol	*2800*	*10000*		NA		NA		ND		ND		NA	
N-Nitroso-di-n-propylamine	*0.66*	*0.66*	*10*	NA		NA		ND		ND		NA	
Acetophenone	~	~	~	NA		NA		ND		ND		NA	
Hexachloroethane	*6*	*100*	*100*	NA		NA		ND		ND		NA	
Nitrobenzene	*28*	*520*	*10*	NA		NA		ND		ND		NA	
Isophorone	*1100*	*10000*	*50*	NA		NA		ND		ND		NA	
2-Nitrophenol	~	~	~	NA		NA		ND		ND		NA	
2,4-Dimethylphenol	*1100*	*10000*	*10*	NA		NA		ND		ND		NA	
bis(2-Chloroethoxy)methane	~	~	~	NA		NA		ND		ND		NA	
2,4-Dichlorophenol	*170*	*3100*	*10*	NA		NA		ND		ND		NA	
Naphthalene	*230*	*4200*	*100*	2.79		ND		0.111		0.285		ND	
4-Chloroaniline	*230*	*4200*	~	NA		NA		ND		ND		NA	
Hexachlorobutadiene	*1*	*21*	*100*	NA		NA		ND		ND		NA	
Caprolactam	~	~	~	NA		NA		ND		ND		NA	
4-Chloro-3-methylphenol	*10000*	*10000*	*100*	NA		NA		ND		ND		NA	
2-Methylnaphthalene	~	~	~	NA		NA		ND		ND		NA	
Hexachlorocyclopentadiene	*400*	*7300*	*100*	NA		NA		ND		ND		NA	
2,4,6-Trichlorophenol	*62*	*270*	*10*	NA		NA		ND		ND		NA	
2,4,5-Trichlorophenol	*5600*	*10000*	*50*	NA		NA		ND		ND		NA	
1-1'-Biphenyl	~	~	~	NA		NA		ND		ND		NA	
2-Chloronaphthalene	~	~	~	NA		NA		ND		ND		NA	
2-Nitroaniline	~	~	~	NA		NA		ND		ND		NA	
Dimethylphthalate	*10000*	*10000*	*50*	NA		NA		ND		ND		NA	
2,6-Dinitrotoluene				NA		NA		ND		ND		NA	
Acenaphthylene	~	~	~	0.798		ND		ND		ND		ND	
3-Nitroaniline	~	~	~	NA		NA		ND		ND		NA	
Acenaphthene	*3400*	*10000*	*100*	9.44		ND		0.279		0.544		ND	
2,4-Dinitrophenol	*110*	*2100*	*10*	NA		NA		ND		ND		NA	
4-Nitrophenol	~	~	~	NA		NA		ND		ND		NA	
2,4-Dinitrotoluene				NA		NA		ND		ND		NA	
Dibenzofuran	~	~	~	NA		NA		0.098	J	0.202	J	NA	
Diethylphthalate	*10000*	*10000*	*50*	NA		NA		ND		ND		NA	
Fluorene	*2300*	*10000*	*100*	11.3		ND		0.224		0.460		ND	
4-Chlorophenyl-phenylether	~	~	~	NA		NA		ND		ND		NA	
4-Nitroaniline	~	~	~	NA		NA		ND		ND		NA	
1,2,4,5-Tetrachlorobenzene	~	~	~	NA		NA		ND		ND		NA	
4,6-Dinitro-2-methylphenol	~	~	~	NA		NA		ND		ND		NA	
N-Nitrosodiphenylamine	*140*	*600*	*100*	NA		NA		ND		ND		NA	
4-Bromophenyl-phenylether	~	~	~	NA		NA		ND		ND		NA	
Hexachlorobenzene	*0.66*	*2*	*100*	NA		NA		ND		ND		NA	
Atrazine	~	~	~	NA		NA		ND		ND		NA	
Pentachlorophenol	*6*	*24*	*100*	NA		NA		ND		ND		NA	
Phenanthrene	~	~	~	30.6		ND		1.89		3.89		ND	
Anthracene	*10000*	*10000*	*100*	5.44		ND		0.425		1.28		ND	
Carbazole	~	~	~	NA		NA		0.304		0.528		NA	
Di-n-butylphthalate	*5700*	*10000*	*100*	NA		NA		ND		ND		NA	
Fluoranthene	*2300*	*10000*	*100*	19.9		ND		3.70		7.83		0.400	J
Pyrene	*1700*	*10000*	*100*	14.2		ND		2.94		6.72		ND	
Butylbenzylphthalate	*1100*	*10000*	*100*	NA		NA		ND		ND		NA	
3,3'-Dichlorobenzidine	*2*	*6*	*100*	NA		NA		ND		ND		NA	
Benzo[a]anthracene	*0.9*	*4*	*500*	**6.14**		ND		**2.00**		**4.02**		ND	
Chrysene	*9*	*40*	*500*	5.45		ND		2.35		4.86		ND	
bis(2-Ethylhexyl)phthalate	*49*	*210*	*100*	NA		NA		0.444		0.643		NA	
Di-n-octylphthalate	*1100*	*10000*	*100*	NA		NA		ND		ND		NA	
Benzo[b]fluoranthene	*0.9*	*4*	*50*	**4.96**		ND		**2.65**		**4.72**		ND	
Benzo[k]fluoranthene	*0.9*	*4*	*500*	**1.87**		ND		**0.916**		**5.53**		ND	
Benzo[a]pyrene	*0.66*	*0.66*	*100*	**3.97**		ND		**1.82**		**5.50**		ND	
Indeno[1,2,3-cd]pyrene	*0.9*	*4*	*500*	**2.26**		ND		**1.25**		**3.66**		ND	
Dibenz[a,h]anthracene	*0.66*	*0.66*	*100*	0.639		ND		0.397		**1.83**		ND	
Benzo[g,h,i]perylene	~	~	~	2.74		ND		1.62		4.13		ND	
TOTAL BNAs	*NA*	*NA*	*NA*	NA		NA		23.4	J	56.6	J	NA	
TOTAL TICs	*NA*	*NA*	*NA*	NA		NA		5.19		25.9		NA	
TOTAL BNs & TICs	*NA*	*NA*	*NA*	NA		NA		28.6	J	82.6	J	NA	

Table III
Summary of Semi-Volatile Compounds in Soil

			Client ID:	C3(14)		C3(14)		C3(14)		C3(14)		C3(15)	
			Sample Depth:	1.5-2		8.5-9		16.5-17.0		21.5-22		1.5-2	
			Elevation:	11.2 to 10.7		4.2 to 3.7		-3.8 to -4.3		-8.8 to -9.3		11.0 to 10.5	
			Lab ID:	2113-018		2113-020		2035-001		2035-002		2113-015	
			Date Sampled:	3/25/02		3/25/02		3/20/02		3/21/02		3/25/02	
Semivolatiles - BNA (ppm)	***USCC***	***RSCC***	***IGWSCC***										
Benzaldehyde	~	~	~	ND		ND		NA		NA		ND	
Phenol	*10000*	*10000*	*50*	ND		ND		NA		NA		ND	
bis(2-Chloroethyl)ether	*0.66*	*3*	*10*	ND		ND		NA		NA		ND	
2-Chlorophenol	*280*	*5200*	*10*	ND		ND		NA		NA		ND	
2-Methylphenol	*2800*	*10000*	~	ND		ND		NA		NA		ND	
bis(2-chloroisopropyl)ether	*2300*	*10000*	*10*	ND		ND		NA		NA		ND	
4-Methylphenol	*2800*	*10000*		ND		ND		NA		NA		ND	
N-Nitroso-di-n-propylamine	*0.66*	*0.66*	*10*	ND		ND		NA		NA		ND	
Acetophenone	~	~	~	ND		ND		NA		NA		ND	
Hexachloroethane	*6*	*100*	*100*	ND		ND		NA		NA		ND	
Nitrobenzene	*28*	*520*	*10*	ND		ND		NA		NA		ND	
Isophorone	*1100*	*10000*	*50*	ND		ND		NA		NA		ND	
2-Nitrophenol	~	~	~	ND		ND		NA		NA		ND	
2,4-Dimethylphenol	*1100*	*10000*	*10*	ND		ND		NA		NA		ND	
bis(2-Chloroethoxy)methane	~	~	~	ND		ND		NA		NA		ND	
2,4-Dichlorophenol	*170*	*3100*	*10*	ND		ND		NA		NA		ND	
Naphthalene	*230*	*4200*	*100*	0.078	J	7.25		ND		ND		0.524	
4-Chloroaniline	*230*	*4200*	~	ND		ND		NA		NA		ND	
Hexachlorobutadiene	*1*	*21*	*100*	ND		ND		NA		NA		ND	
Caprolactam	~	~	~	ND		ND		NA		NA		ND	
4-Chloro-3-methylphenol	*10000*	*10000*	*100*	ND		ND		NA		NA		ND	
2-Methylnaphthalene	~	~	~	ND		2.33		NA		NA		0.534	
Hexachlorocyclopentadiene	*400*	*7300*	*100*	ND		ND		NA		NA		ND	
2,4,6-Trichlorophenol	*62*	*270*	*10*	ND		ND		NA		NA		ND	
2,4,5-Trichlorophenol	*5600*	*10000*	*50*	ND		ND		NA		NA		ND	
1-1'-Biphenyl	~	~	~	ND		0.565		NA		NA		ND	
2-Chloronaphthalene	~	~	~	ND		ND		NA		NA		ND	
2-Nitroaniline	~	~	~	ND		ND		NA		NA		ND	
Dimethylphthalate	*10000*	*10000*	*50*	ND		ND		NA		NA		ND	
2,6-Dinitrotoluene				ND		ND		NA		NA		ND	
Acenaphthylene	~	~	~	ND		0.366		ND		ND		0.733	
3-Nitroaniline	~	~	~	ND		ND		NA		NA		ND	
Acenaphthene	*3400*	*10000*	*100*	ND		5.56		ND		ND		6.69	
2,4-Dinitrophenol	*110*	*2100*	*10*	ND		ND		NA		NA		ND	
4-Nitrophenol	~	~	~	ND		ND		NA		NA		ND	
2,4-Dinitrotoluene				ND		ND		NA		NA		ND	
Dibenzofuran	~	~	~	ND		3.12		NA		NA		1.36	
Diethylphthalate	*10000*	*10000*	*50*	ND		ND		NA		NA		ND	
Fluorene	*2300*	*10000*	*100*	ND		4.63		ND		ND		4.20	
4-Chlorophenyl-phenylether	~	~	~	ND		ND		NA		NA		ND	
4-Nitroaniline	~	~	~	ND		ND		NA		NA		ND	
1,2,4,5-Tetrachlorobenzene	~	~	~	ND		ND		NA		NA		ND	
4,6-Dinitro-2-methylphenol	~	~	~	ND		ND		NA		NA		ND	
N-Nitrosodiphenylamine	*140*	*600*	*100*	ND		ND		NA		NA		ND	
4-Bromophenyl-phenylether	~	~	~	ND		ND		NA		NA		ND	
Hexachlorobenzene	*0.66*	*2*	*100*	ND		ND		NA		NA		ND	
Atrazine	~	~	~	ND		ND		NA		NA		ND	
Pentachlorophenol	*6*	*24*	*100*	ND		ND		NA		NA		ND	
Phenanthrene	~	~	~	0.314		21.7		ND		ND		37.4	
Anthracene	*10000*	*10000*	*100*	0.084	J	6.09		ND		ND		15.6	
Carbazole	~	~	~	ND		4.09		NA		NA		1.89	
Di-n-butylphthalate	*5700*	*10000*	*100*	ND		ND		NA		NA		ND	
Fluoranthene	*2300*	*10000*	*100*	0.709		29.4		ND		ND		**105**	
Pyrene	*1700*	*10000*	*100*	0.620		25.2		ND		ND		88.4	
Butylbenzylphthalate	*1100*	*10000*	*100*	ND		ND		NA		NA		ND	
3,3'-Dichlorobenzidine	*2*	*6*	*100*	ND		ND		NA		NA		ND	
Benzo[a]anthracene	*0.9*	*4*	*500*	0.429		**15.0**		ND		ND		**60.0**	
Chrysene	*9*	*40*	*500*	0.427		17.4		ND		ND		**57.0**	
bis(2-Ethylhexyl)phthalate	*49*	*210*	*100*	0.213		0.985		NA		NA		2.28	
Di-n-octylphthalate	*1100*	*10000*	*100*	ND		ND		NA		NA		ND	
Benzo[b]fluoranthene	*0.9*	*4*	*50*	0.473		**21.7**		ND		ND		**59.6**	
Benzo[k]fluoranthene	*0.9*	*4*	*500*	0.186		**11.2**		ND		ND		**20.6**	
Benzo[a]pyrene	*0.66*	*0.66*	*100*	0.343		**18.5**		ND		ND		**44.8**	
Indeno[1,2,3-cd]pyrene	*0.9*	*4*	*500*	0.222		**12.0**		ND		ND		**26.5**	
Dibenz[a,h]anthracene	*0.66*	*0.66*	*100*	0.073	J	**4.52**		ND		ND		**1.92**	
Benzo[g,h,i]perylene	~	~	~	0.301		12.7		ND		ND		31.4	
TOTAL BNAs	*NA*	*NA*	*NA*	4.47	J	224		NA		NA		566	
TOTAL TICs	*NA*	*NA*	*NA*	ND		50.6		NA		NA		135	
TOTAL BNs & TICs	*NA*	*NA*	*NA*	4.47	J	275		NA		NA		701	

Table III
Summary of Semi-Volatile Compounds in Soil

			Client ID:	C3(15)	C3(15)	C3(15)	C3(18)	C3(18)
			Sample Depth:	10.5-11	20-20.5	22.5-23	1.5-2	13.5-14
			Elevation:	2.0 to 1.5	-7.5 to -8.0	-10 to -10.5	11.2 to 10.7	-0.8 to -1.3
			Lab ID:	2113-017	1998-01	1998-05	2113-008	2113-010
			Date Sampled:	3/25/02	3/20/02	3/20/02	3/25/02	3/25/02
Semivolatiles - BNA (ppm)	***USCC***	***RSCC***	***IGWSCC***					
Benzaldehyde	~	~	~	ND	NA	NA	ND	ND
Phenol	*10000*	*10000*	*50*	ND	NA	NA	ND	ND
bis(2-Chloroethyl)ether	*0.66*	*3*	*10*	ND	NA	NA	ND	ND
2-Chlorophenol	*280*	*5200*	*10*	ND	NA	NA	ND	ND
2-Methylphenol	*2800*	*10000*	~	ND	NA	NA	ND	ND
bis(2-chloroisopropyl)ether	*2300*	*10000*	*10*	ND	NA	NA	ND	ND
4-Methylphenol	*2800*	*10000*		ND	NA	NA	ND	ND
N-Nitroso-di-n-propylamine	*0.66*	*0.66*	*10*	ND	NA	NA	ND	ND
Acetophenone	~	~	~	ND	NA	NA	ND	ND
Hexachloroethane	*6*	*100*	*100*	ND	NA	NA	ND	ND
Nitrobenzene	*28*	*520*	*10*	ND	NA	NA	ND	ND
Isophorone	*1100*	*10000*	*50*	ND	NA	NA	ND	ND
2-Nitrophenol	~	~	~	ND	NA	NA	ND	ND
2,4-Dimethylphenol	*1100*	*10000*	*10*	ND	NA	NA	ND	ND
bis(2-Chloroethoxy)methane	~	~	~	ND	NA	NA	ND	ND
2,4-Dichlorophenol	*170*	*3100*	*10*	ND	NA	NA	ND	ND
Naphthalene	*230*	*4200*	*100*	0.173	NA	NA	0.990	0.307
4-Chloroaniline	*230*	*4200*	~	ND	NA	NA	ND	ND
Hexachlorobutadiene	*1*	*21*	*100*	ND	NA	NA	ND	ND
Caprolactam	~	~	~	ND	NA	NA	ND	ND
4-Chloro-3-methylphenol	*10000*	*10000*	*100*	ND	NA	NA	ND	ND
2-Methylnaphthalene	~	~	~	ND	NA	NA	0.438	ND
Hexachlorocyclopentadiene	*400*	*7300*	*100*	ND	NA	NA	ND	ND
2,4,6-Trichlorophenol	*62*	*270*	*10*	ND	NA	NA	ND	ND
2,4,5-Trichlorophenol	*5600*	*10000*	*50*	ND	NA	NA	ND	ND
1-1'-Biphenyl	~	~	~	ND	NA	NA	0.203	ND
2-Chloronaphthalene	~	~	~	ND	NA	NA	ND	ND
2-Nitroaniline	~	~	~	ND	NA	NA	ND	ND
Dimethylphthalate	*10000*	*10000*	*50*	ND	NA	NA	ND	ND
2,6-Dinitrotoluene				ND	NA	NA	ND	ND
Acenaphthylene	~	~	~	0.206	NA	NA	0.453	ND
3-Nitroaniline	~	~	~	ND	NA	NA	ND	ND
Acenaphthene	*3400*	*10000*	*100*	0.609	NA	NA	1.55	0.442
2,4-Dinitrophenol	*110*	*2100*	*10*	ND	NA	NA	ND	ND
4-Nitrophenol	~	~	~	ND	NA	NA	ND	ND
2,4-Dinitrotoluene				ND	NA	NA	ND	ND
Dibenzofuran	~	~	~	0.147	NA	NA	1.12	0.226
Diethylphthalate	*10000*	*10000*	*50*	ND	NA	NA	ND	ND
Fluorene	*2300*	*10000*	*100*	0.331	NA	NA	2.05	0.457
4-Chlorophenyl-phenylether	~	~	~	ND	NA	NA	ND	ND
4-Nitroaniline	~	~	~	ND	NA	NA	ND	ND
1,2,4,5-Tetrachlorobenzene	~	~	~	ND	NA	NA	ND	ND
4,6-Dinitro-2-methylphenol	~	~	~	ND	NA	NA	ND	ND
N-Nitrosodiphenylamine	*140*	*600*	*100*	ND	NA	NA	ND	ND
4-Bromophenyl-phenylether	~	~	~	ND	NA	NA	ND	ND
Hexachlorobenzene	*0.66*	*2*	*100*	ND	NA	NA	ND	ND
Atrazine	~	~	~	ND	NA	NA	ND	ND
Pentachlorophenol	*6*	*24*	*100*	ND	NA	NA	ND	ND
Phenanthrene	~	~	~	2.81	NA	NA	9.44	2.87
Anthracene	*10000*	*10000*	*100*	0.918	NA	NA	2.37	0.789
Carbazole	~	~	~	0.296	NA	NA	1.03	0.370
Di-n-butylphthalate	*5700*	*10000*	*100*	ND	NA	NA	ND	ND
Fluoranthene	*2300*	*10000*	*100*	7.12	NA	NA	12.2	5.46
Pyrene	*1700*	*10000*	*100*	6.27	NA	NA	9.43	4.33
Butylbenzylphthalate	*1100*	*10000*	*100*	ND	NA	NA	ND	ND
3,3'-Dichlorobenzidine	*2*	*6*	*100*	ND	NA	NA	ND	ND
Benzo[a]anthracene	*0.9*	*4*	*500*	**4.06**	NA	NA	**6.08**	**2.62**
Chrysene	*9*	*40*	*500*	4.30	NA	NA	**6.67**	3.08
bis(2-Ethylhexyl)phthalate	*49*	*210*	*100*	1.41	NA	NA	0.306	0.390
Di-n-octylphthalate	*1100*	*10000*	*100*	ND	NA	NA	ND	ND
Benzo[b]fluoranthene	*0.9*	*4*	*50*	**4.11**	NA	NA	**6.64**	**2.94**
Benzo[k]fluoranthene	*0.9*	*4*	*500*	**4.66**	NA	NA	**2.57**	**2.88**
Benzo[a]pyrene	*0.66*	*0.66*	*100*	**5.05**	NA	NA	**5.04**	**3.18**
Indeno[1,2,3-cd]pyrene	*0.9*	*4*	*500*	**2.78**	NA	NA	**3.32**	**1.84**
Dibenz[a,h]anthracene	*0.66*	*0.66*	*100*	**1.28**	NA	NA	**1.03**	**0.849**
Benzo[g,h,i]perylene	~	~	~	3.18	NA	NA	4.14	2.00
TOTAL BNAs	*NA*	*NA*	*NA*	49.7	NA	NA	77.1	35.0
TOTAL TICs	*NA*	*NA*	*NA*	5.25	NA	NA	12.0	1.97
TOTAL BNs & TICs	*NA*	*NA*	*NA*	55.0	NA	NA	89.1	37.0

Table III
Summary of Semi-Volatile Compounds in Soil

			Client ID:	C3(19)		C3(19)		C3(19)		SB10		SB11	
			Sample Depth:	3.5-4		7.5-8		15-15.5		11.1-11.6		6.6-7.1	
			Elevation:	8.6 to 8.1		4.6 to 4.1		-2.9 to -3.4		5.3 to 5.8		5.5 to 5.0	
			Lab ID:	2113-022		2113-023		2035-003		2245-012		2245-004	
			Date Sampled:	3/25/02		3/25/02		3/21/02		3/29/02		3/29/02	
Semivolatiles - BNA (ppm)	***USCC***	***RSCC***	***IGWSCC***										
Benzaldehyde	~	~	~	ND		ND		NA		ND		ND	
Phenol	*10000*	*10000*	*50*	ND		ND		NA		ND		ND	
bis(2-Chloroethyl)ether	*0.66*	*3*	*10*	ND		ND		NA		ND		ND	
2-Chlorophenol	*280*	*5200*	*10*	ND		ND		NA		ND		ND	
2-Methylphenol	*2800*	*10000*	~	ND		ND		NA		ND		ND	
bis(2-chloroisopropyl)ether	*2300*	*10000*	*10*	ND		ND		NA		ND		ND	
4-Methylphenol	*2800*	*10000*		ND		ND		NA		ND		ND	
N-Nitroso-di-n-propylamine	*0.66*	*0.66*	*10*	ND		ND		NA		ND		ND	
Acetophenone	~	~	~	ND		ND		NA		ND		ND	
Hexachloroethane	*6*	*100*	*100*	ND		ND		NA		ND		ND	
Nitrobenzene	*28*	*520*	*10*	ND		ND		NA		ND		ND	
Isophorone	*1100*	*10000*	*50*	ND		ND		NA		ND		ND	
2-Nitrophenol	~	~	~	ND		ND		NA		ND		ND	
2,4-Dimethylphenol	*1100*	*10000*	*10*	ND		ND		NA		ND		ND	
bis(2-Chloroethoxy)methane	~	~	~	ND		ND		NA		ND		ND	
2,4-Dichlorophenol	*170*	*3100*	*10*	ND		ND		NA		ND		ND	
Naphthalene	*230*	*4200*	*100*	ND		0.638		ND		ND		0.212	
4-Chloroaniline	*230*	*4200*	~	ND		ND		NA		ND		ND	
Hexachlorobutadiene	*1*	*21*	*100*	ND		ND		NA		ND		ND	
Caprolactam	~	~	~	ND		ND		NA		ND		ND	
4-Chloro-3-methylphenol	*10000*	*10000*	*100*	ND		ND		NA		ND		ND	
2-Methylnaphthalene	~	~	~	ND		0.185		NA		ND		ND	
Hexachlorocyclopentadiene	*400*	*7300*	*100*	ND		ND		NA		ND		ND	
2,4,6-Trichlorophenol	*62*	*270*	*10*	ND		ND		NA		ND		ND	
2,4,5-Trichlorophenol	*5600*	*10000*	*50*	ND		ND		NA		ND		ND	
1-1'-Biphenyl	~	~	~	ND		ND		NA		ND		ND	
2-Chloronaphthalene	~	~	~	ND		ND		NA		ND		ND	
2-Nitroaniline	~	~	~	ND		ND		NA		ND		ND	
Dimethylphthalate	*10000*	*10000*	*50*	ND		ND		NA		ND		ND	
2,6-Dinitrotoluene				ND		ND		NA		ND		ND	
Acenaphthylene	~	~	~	ND		ND		ND		ND		ND	
3-Nitroaniline	~	~	~	ND		ND		NA		ND		ND	
Acenaphthene	*3400*	*10000*	*100*	0.072	J	0.418		ND		ND		0.134	
2,4-Dinitrophenol	*110*	*2100*	*10*	ND		ND		NA		ND		ND	
4-Nitrophenol	~	~	~	ND		ND		NA		ND		ND	
2,4-Dinitrotoluene				ND		ND		NA		ND		ND	
Dibenzofuran	~	~	~	ND		0.247		NA		ND		ND	
Diethylphthalate	*10000*	*10000*	*50*	ND		ND		NA		ND		ND	
Fluorene	*2300*	*10000*	*100*	ND		0.358		ND		ND		0.121	
4-Chlorophenyl-phenylether	~	~	~	ND		ND		NA		ND		ND	
4-Nitroaniline	~	~	~	ND		ND		NA		ND		ND	
1,2,4,5-Tetrachlorobenzene	~	~	~	ND		ND		NA		ND		ND	
4,6-Dinitro-2-methylphenol	~	~	~	ND		ND		NA		ND		ND	
N-Nitrosodiphenylamine	*140*	*600*	*100*	ND		ND		NA		ND		ND	
4-Bromophenyl-phenylether	~	~	~	ND		ND		NA		ND		ND	
Hexachlorobenzene	*0.66*	*2*	*100*	ND		ND		NA		ND		ND	
Atrazine	~	~	~	ND		ND		NA		ND		ND	
Pentachlorophenol	*6*	*24*	*100*	ND		ND		NA		ND		ND	
Phenanthrene	~	~	~	0.804		5.37		ND		ND		0.929	
Anthracene	*10000*	*10000*	*100*	0.131		0.901		ND		ND		0.211	
Carbazole	~	~	~	ND		0.521		NA		ND		0.130	
Di-n-butylphthalate	*5700*	*10000*	*100*	ND		ND		NA		ND		ND	
Fluoranthene	*2300*	*10000*	*100*	1.78		8.58		ND		ND		1.73	
Pyrene	*1700*	*10000*	*100*	1.24		7.87		ND		ND		1.32	
Butylbenzylphthalate	*1100*	*10000*	*100*	ND		ND		NA		ND		ND	
3,3'-Dichlorobenzidine	*2*	*6*	*100*	ND		ND		NA		ND		ND	
Benzo[a]anthracene	*0.9*	*4*	*500*	0.806		**3.88**		ND		ND		0.848	
Chrysene	*9*	*40*	*500*	**0.981**		4.88		ND		ND		1.01	
bis(2-Ethylhexyl)phthalate	*49*	*210*	*100*	ND		ND		NA		0.401		0.084	
Di-n-octylphthalate	*1100*	*10000*	*100*	ND		ND		NA		ND		ND	
Benzo[b]fluoranthene	*0.9*	*4*	*50*	**1.04**		**4.03**		ND		ND		1.13	
Benzo[k]fluoranthene	*0.9*	*4*	*500*	0.400		**3.63**		ND		ND		0.362	
Benzo[a]pyrene	*0.66*	*0.66*	*100*	0.654		**4.44**		ND		ND		**0.745**	
Indeno[1,2,3-cd]pyrene	*0.9*	*4*	*500*	0.514		**2.28**		ND		ND		0.465	
Dibenz[a,h]anthracene	*0.66*	*0.66*	*100*	0.170		**1.03**		ND		ND		0.176	
Benzo[g,h,i]perylene	~	~	~	0.673		2.54		ND		ND		0.638	
TOTAL BNAs	*NA*	*NA*	*NA*	9.26	J	51.8		NA		0.401		10.2	
TOTAL TICs	*NA*	*NA*	*NA*	472		4.08		NA		ND		211	
TOTAL BNs & TICs	*NA*	*NA*	*NA*	481	J	55.9		NA		0.401		221	

Table III
Summary of Semi-Volatile Compounds in Soil

			Client ID:	FB32002		FB032202	
			Sample Depth:	--		--	
			Elevation:	--		--	
			Lab ID:	1998-003		2077-001	
			Date Sampled:	3/20/02		3/22/02	
Semivolatiles - BNA (ppm)	*USCC*	*RSCC*	*IGWSCC*				
Benzaldehyde	~	~	~	ND		ND	
Phenol	*10000*	*10000*	*50*	ND		ND	
bis(2-Chloroethyl)ether	*0.66*	*3*	*10*	ND		ND	
2-Chlorophenol	*280*	*5200*	*10*	ND		ND	
2-Methylphenol	*2800*	*10000*	~	ND		ND	
bis(2-chloroisopropyl)ether	*2300*	*10000*	*10*	ND		ND	
4-Methylphenol	*2800*	*10000*		ND		ND	
N-Nitroso-di-n-propylamine	*0.66*	*0.66*	*10*	ND		ND	
Acetophenone	~	~	~	ND		ND	
Hexachloroethane	*6*	*100*	*100*	ND		ND	
Nitrobenzene	*28*	*520*	*10*	ND		ND	
Isophorone	*1100*	*10000*	*50*	ND		ND	
2-Nitrophenol	~	~	~	ND		ND	
2,4-Dimethylphenol	*1100*	*10000*	*10*	ND		ND	
bis(2-Chloroethoxy)methane	~	~	~	ND		ND	
2,4-Dichlorophenol	*170*	*3100*	*10*	ND		ND	
Naphthalene	*230*	*4200*	*100*	~		ND	
4-Chloroaniline	*230*	*4200*	~	ND		ND	
Hexachlorobutadiene	*1*	*21*	*100*	ND		ND	
Caprolactam	~	~	~	ND		ND	
4-Chloro-3-methylphenol	*10000*	*10000*	*100*	ND		ND	
2-Methylnaphthalene	~	~	~	ND	J	ND	
Hexachlorocyclopentadiene	*400*	*7300*	*100*	ND		ND	
2,4,6-Trichlorophenol	*62*	*270*	*10*	ND		ND	
2,4,5-Trichlorophenol	*5600*	*10000*	*50*	ND		ND	
1-1'-Biphenyl	~	~	~	ND		ND	
2-Chloronaphthalene	~	~	~	ND		ND	
2-Nitroaniline	~	~	~	ND		ND	
Dimethylphthalate	*10000*	*10000*	*50*	ND		ND	
2,6-Dinitrotoluene				ND		ND	
Acenaphthylene	~	~	~	~		ND	
3-Nitroaniline	~	~	~	ND		ND	
Acenaphthene	*3400*	*10000*	*100*	~		ND	
2,4-Dinitrophenol	*110*	*2100*	*10*	ND		ND	
4-Nitrophenol	~	~	~	ND		ND	
2,4-Dinitrotoluene				ND		ND	
Dibenzofuran	~	~	~	ND		ND	
Diethylphthalate	*10000*	*10000*	*50*	ND		ND	
Fluorene	*2300*	*10000*	*100*	~		ND	
4-Chlorophenyl-phenylether	~	~	~	ND		ND	
4-Nitroaniline	~	~	~	ND		ND	
1,2,4,5-Tetrachlorobenzene	~	~	~	ND		ND	
4,6-Dinitro-2-methylphenol	~	~	~	ND		ND	
N-Nitrosodiphenylamine	*140*	*600*	*100*	ND		ND	
4-Bromophenyl-phenylether	~	~	~	ND		ND	
Hexachlorobenzene	*0.66*	*2*	*100*	ND		ND	
Atrazine	~	~	~	ND		ND	
Pentachlorophenol	*6*	*24*	*100*	ND		ND	
Phenanthrene	~	~	~	~		ND	
Anthracene	*10000*	*10000*	*100*	~		ND	
Carbazole	~	~	~	ND		ND	
Di-n-butylphthalate	*5700*	*10000*	*100*	ND		ND	
Fluoranthene	*2300*	*10000*	*100*	~		ND	
Pyrene	*1700*	*10000*	*100*	~		ND	
Butylbenzylphthalate	*1100*	*10000*	*100*	ND		ND	
3,3'-Dichlorobenzidine	*2*	*6*	*100*	ND		ND	
Benzo[a]anthracene	*0.9*	*4*	*500*	~		ND	
Chrysene	*9*	*40*	*500*	~		ND	
bis(2-Ethylhexyl)phthalate	*49*	*210*	*100*	ND		ND	
Di-n-octylphthalate	*1100*	*10000*	*100*	ND		ND	
Benzo[b]fluoranthene	*0.9*	*4*	*50*	~		ND	
Benzo[k]fluoranthene	*0.9*	*4*	*500*	~		ND	
Benzo[a]pyrene	*0.66*	*0.66*	*100*	~		ND	
Indeno[1,2,3-cd]pyrene	*0.9*	*4*	*500*	~		ND	
Dibenz[a,h]anthracene	*0.66*	*0.66*	*100*	~		ND	
Benzo[g,h,i]perylene	~	~	~	~		ND	
TOTAL BNAs	*NA*	*NA*	*NA*	ND	J	ND	
TOTAL TICs	*NA*	*NA*	*NA*	ND		ND	
TOTAL BNs & TICs	*NA*	*NA*	*NA*	ND	J	ND	

Table IV
Summary of Pesticides in Soil

			Client ID:	C3(4)	C3(4)	C3(5)	C3(5)	C3(5)	C3(6)	C3(6)	C3(10)	C3(10)	C3(14)	C3(14)	C3(15)
			Sample Depth:	3.5-4	14.5-15	1.5-2	10-10.5	14.5-15	3.5-4	13.5-14	1-1.5	7.5-8	1.5-2	8.5-9	1.5-2
			Elevation:	8.8-8.3	-2.2 to -2.7	10.8-10.3	2.3-1.8	-2.2 to -2.7	8.4 to 7.9	-1.6 to -2.1	12.1 to 11.6	5.6 to 5.1	11.2 to 10.7	4.2 to 3.7	11.0 to 10.5
			Lab ID:	2140-003	2140-004	2140-005	2077-003	2077-004	2140-008	2140-009	2113-001	2113-003	2113-018	2113-020	2113-015
			Date Sampled:	3/26/02	3/26/02	3/26/02	3/22/02	3/22/02	3/26/02	3/26/02	3/25/02	3/25/02	3/25/02	3/25/02	3/25/02
Pesticides (ppm)	*USCC*	*RSCC*	*IGWSCC*												
alpha-BHC	~	~	~	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
beta-BHC	~	~	~	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
gamma-BHC	*0.52*	*2.2*	*50*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
delta-BHC	~	~	~	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor	*0.15*	*0.65*	*50*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aldrin	*0.04*	*0.17*	*50*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor epoxide	~	~	~	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan I	~	~	~	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDE	*2*	*9*	*50*	0.067	ND	0.115	ND	ND	0.027	ND	ND	ND	ND	0.00978	ND
Dieldrin	*0.042*	*0.18*	*50*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin	*17*	*310*	*50*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan II	~	~	~	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDD	*3*	*12*	*50*	ND	ND	0.055	ND	ND	0.014	ND	ND	ND	ND	ND	ND
Endrin aldehyde	~	~	~	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan sulfate	~	~	~	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDT	*2*	*9*	*500*	0.253	ND	0.288	ND	ND	0.043	ND	0.011	ND	ND	0.0289	0.038
Endrin ketone	~	~	~	ND	ND	ND	ND	ND	ND	0.017	ND	ND	ND	ND	ND
Methoxychlor	*280*	*5200*	*50*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
alpha-Chlordane	~	~	~	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.012
gamma-Chlordane	~	~	~	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.035
Toxaphene	*0.1*	*0.2*	*50*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Table IV
Summary of Pesticides in Soil

			Client ID:	C3(15)	C3(18)	C3(18)	C3(19)	C3(19)	SB10	SB11	FB032002	FB032202
			Sample Depth:	10.5-11	1.5-2	13.5-14	3.5-4	7.5-8	11.1-11.6	6.6-7.1	--	--
			Elevation:	2.0 to 1.5	11.2 to 10.7	-0.8 to -1.3	8.6 to 8.1	4.6 to 4.1	5.3 to 4.8	5.5 to 5.0	--	--
			Lab ID:	2113-017	2113-008	2113-010	2113-022	2113-023	2245-012	2245-004	1998-003	2077-001
			Date Sampled:	3/25/02	3/25/02	3/25/02	3/25/02	3/25/02	3/29/02	3/29/02	3/20/02	3/22/02
Pesticides (ppm)	***USCC***	***RSCC***	***IGWSCC***									
alpha-BHC	~	~	~	ND	ND	ND	ND	ND	ND	ND	ND	ND
beta-BHC	~	~	~	ND	ND	ND	ND	ND	ND	ND	ND	ND
gamma-BHC	*0.52*	*2.2*	*50*	ND	ND	ND	ND	ND	ND	ND	ND	ND
delta-BHC	~	~	~	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor	*0.15*	*0.65*	*50*	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aldrin	*0.04*	*0.17*	*50*	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor epoxide	~	~	~	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan I	~	~	~	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDE	*2*	*9*	*50*	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dieldrin	*0.042*	*0.18*	*50*	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin	*17*	*310*	*50*	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan II	~	~	~	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDD	*3*	*12*	*50*	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin aldehyde	~	~	~	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan sulfate	~	~	~	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDT	*2*	*9*	*500*	0.00982	.0076	0.00714	ND	ND	ND	ND	ND	0.0000913
Endrin ketone	~	~	~	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methoxychlor	*280*	*5200*	*50*	ND	ND	ND	ND	ND	ND	ND	ND	ND
alpha-Chlordane	~	~	~	ND	ND	ND	ND	ND	ND	ND	ND	ND
gamma-Chlordane	~	~	~	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toxaphene	*0.1*	*0.2*	*50*	ND	ND	ND	ND	ND	ND	ND	ND	ND

Table V
Summary of PCBs in Soil

	Client ID:	C3(4)	C3(4)	C3(5)	C3(5)	C3(5)	C3(6)	C3(6)
	Sample Depth:	3.5-4	14.5-15	1.5-2	10-10.5	14.5-15	3.5-4	13.5-14
	Elevation:	8.8 to 8.3	-2.2 to -2.7	10.8 to 10.3	2.3 to 1.8	-2.2 to -2.7	8.4 to 7.9	-1.6 to -2.1
	Lab ID:	2140-003	2140-004	2140-005	2077-003	2077-004	2140-008	2140-009
	Date Sampled:	3/26/02	3/26/02	3/26/02	3/22/02	3/22/02	3/26/02	3/26/02
PCBs (ppm)	***USCC***	***RSCC***	***IGWSCC***					
Aroclor-1016	***0.49***	***2***	***50***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor-1221	***0.49***	***2***	***50***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor-1232	***0.49***	***2***	***50***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor-1242	***0.49***	***2***	***50***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor-1248	***0.49***	***2***	***50***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor-1254	***0.49***	***2***	***50***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor-1260	***0.49***	***2***	***50***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Table V
Summary of PCBs in Soil

			Client ID:	C3(10)		C3(10)		C3(14)		C3(14)		C3(15)		C3(15)		C3(18)	
			Sample Depth:	1-1.5		7.5-8		1.5-2		8.5-9		1.5-2		10.5-11		1.5-2	
			Elevation:	12.1 to 11.6		5.6 to 5.1		11.2 to 10.7		4.2 to 3.7		11.0 to 10.5		2.0 to 1.5		11.2 to 10.7	
			Lab ID:	2113-001		2113-003		2113-018		2113-020		2113-015		2113-017		2113-008	
			Date Sampled:	3/25/02		3/25/02		3/25/02		3/25/02		3/25/02		3/25/02		3/25/02	
PCBs (ppm)	***USCC***	***RSCC***	***IGWSCC***														
Aroclor-1016	***0.49***	***2***	***50***	ND		ND		ND		ND		ND		ND		ND	
Aroclor-1221	***0.49***	***2***	***50***	ND		ND		ND		ND		ND		ND		ND	
Aroclor-1232	***0.49***	***2***	***50***	ND		ND		ND		ND		ND		ND		ND	
Aroclor-1242	***0.49***	***2***	***50***	ND		ND		ND		ND		ND		ND		ND	
Aroclor-1248	***0.49***	***2***	***50***	ND		ND		ND		ND		ND		ND		ND	
Aroclor-1254	***0.49***	***2***	***50***	ND		ND		ND		ND		ND		0.038		ND	
Aroclor-1260	***0.49***	***2***	***50***	ND		ND		ND		ND		ND		ND		ND	

Table V
Summary of PCBs in Soil

			Client ID:	C3(18)		C3(19)		C3(19)		SB10		SB11		FB032002		FB032202	
			Sample Depth:	13.5-14		3.5-4		7.5-8		11.1-11.6		6.6-7.1		--		--	
			Elevation:	-0.8 to -1.3		8.6 to 8.1		4.6 to 4.1		5.3 to 5.8		5.5 to 5.0		--		--	
			Lab ID:	2113-010		2113-022		2113-023		2245-012		2245-004		1998-003		2077-001	
			Date Sampled:	3/25/02		3/25/02		3/25/02		3/29/02		3/29/02		3/20/02		3/22/02	
PCBs (ppm)	***USCC***	***RSCC***	***IGWSCC***														
Aroclor-1016	***0.49***	***2***	***50***	ND		ND		ND		ND		ND		ND		ND	
Aroclor-1221	***0.49***	***2***	***50***	ND		ND		ND		ND		ND		ND		ND	
Aroclor-1232	***0.49***	***2***	***50***	ND		ND		ND		ND		ND		ND		ND	
Aroclor-1242	***0.49***	***2***	***50***	ND		ND		ND		ND		ND		ND		ND	
Aroclor-1248	***0.49***	***2***	***50***	ND		ND		ND		ND		ND		ND		ND	
Aroclor-1254	***0.49***	***2***	***50***	ND		ND		ND		ND		ND		ND		ND	
Aroclor-1260	***0.49***	***2***	***50***	ND		ND		ND		ND		ND		ND		ND	

Table VI
Summary of Cyanide in Soil

			Client ID:	C3(4)	C3(4)	C3(5)	C3(5)	C3(5)	C3(6)
			Sample Depth:	3.5-4	14.5-15	1.5-2	10-10.5	14.5-15	3.5-4
			Elevation:	8.8 to 8.3	-2.2 to -2.7	10.8-10.3	2.3-1.8	-2.2 to -2.7	8.4 to 7.9
			Lab ID:	2140-003	2140-004	2140-005	2077-003	2077-004	2140-008
			Date Sampled:	3/26/02	3/26/02	3/26/02	3/22/02	3/22/02	3/26/02
	USCC	***RSCC***	***IGWSCC***						
Cyanide, Total (ppm)	***1100***	***21000***	~	1.26	ND	ND	ND	ND	2.33

			Client ID:	C3(6)	C3(10)	C3(14)	C3(15)	C3(18)	C3(19)
			Sample Depth:	13.5-14	7.5-8	8.5-9	10.5-11	13.5-14	7.5-8
			Elevation:	-1.6 to -2.1	5.6 to 5.1	4.2 to 3.7	2.0 to 1.5	-0.8 to -1.3	4.6 to 4.1
			Lab ID:	2140-009	2113-003	2113-020	2113-017	2113-010	2113-023
			Date Sampled:	3/26/02	3/25/02	3/25/02	3/25/02	3/25/02	3/25/02
	USCC	***RSCC***	***IGWSCC***						
Cyanide, Total (ppm)	***1100***	***21000***	~	ND	ND	ND	ND	ND	ND

			Client ID:	SB10	SB11	FB032002	FB032202
			Sample Depth:	11.1-11.6	6.6-7.1	--	--
			Elevation:	5.3 to 4.8	5.5 to 5.0	--	--
			Lab ID:	2245-012	2245-004	1998-003	2077-001
			Date Sampled:	3/29/02	3/29/02	3/20/02	03/22/02
	USCC	***RSCC***	***IGWSCC***				
Cyanide, Total (ppm)	***1100***	***21000***	~	2.66	1.39	ND	ND

Notes for all tables:

ND = not detected; NA = not analyzed.
J = detected at a concentration below the Method Detection Limit.
USCC = NJDEP's Unrestricted Use Soil Cleanup Criteria in parts per million (ppm).
RSCC = NJDEP's Restricted Use Soil Cleanup Criteria in ppm.
IGWSCC = NJDEP's Impact to Ground Water Soil Cleanup Criteria in ppm.
Bold indicates concentration above the USCC or IGWSCC, whichever is lower (there is no IGWSCC for metals).
Shading indicates concentration above RSCC.

APPENDICES

APPENDIX A

APPENDIX A

Soil Boring Logs

DAN RAVIV ASSOCIATES INC.

57 E. Willow Street, Millburn, NJ 07041 (973) 564-6006

SOIL BORING LOG

BORING NUMBER

C3-4

Elevation: 12.3'

PROJECT NAME: Former Celotex **LOCATION:** Edgewater, New Jersey

PROJECT NO.: 01C2084 **CONTRACTOR:** Summit Drilling Co., Inc.

SAMPLER TYPE/DIA.: Split Spoon/2" **DEPTH TO WATER:** 8.5 feet

BORING METHOD: Air Rotary **TOTAL DEPTH DRILLED:** 34 feet

DATE DRILLED: **3/22/02, 03/26/02**

DRILLER: **S. Yotcoski**

LOGGED BY: **R. Tripodi, C. Watt**

DEPTH FROM SURFACE (FEET)	BLOW COUNT PER 6 IN.	RECOVERY (INCHES)	PID (ppm)	SAMPLE DESIGNATION	UNIFIED	LITHOLOGIC CLASSIFICATION AND COMMENTS
0						
1	6	12	ND			FILL: Light brown to brown SILT with some sand; trace gravel. Medium to dense, moist.
2	11		ND	C3(4)/1.5-2'		
	9					
	24					
3	13	12	ND			
4	26		ND	C3(4)/3.5-4'		FILL: Black GRAVEL with ash, some purple sand. Medium dense to loose.
	10					
	16					
5			ND			
6						
7						FILL: Reddish/purple to black medium to coarse SAND, some coarse gravel. Saturated.
8					▽	
9						
10						
11						
12						
13			ND			
14	36	24	ND			FILL: Purple-stained sand and gravel, coarse angular, wet.
	41				PT	PEAT: Dark brown to brown silty meadow mat.
	10					
15	10		ND	C3(4)/14.5-15'		

Some of the soil lithology was provided by EWMA's Test Pit Logs completed in June 2000.

DRAI Job No. 01C2084
Arsenic RIR/Boring Logs/C3-4

DAN RAVIV ASSOCIATES INC.

57 E. Willow Street, Millburn, NJ 07041 (973) 564-6006

SOIL BORING LOG

BORING NUMBER **C3-4**

DEPTH FROM SURFACE (FEET)	BLOW COUNT PER 6 IN.	RECOVERY (INCHES)	PID (ppm)	SAMPLE DESIGNATION	UNIFIED	LITHOLOGIC CLASSIFICATION AND COMMENTS
16						
17						
18						
19						
20						
	7		ND	C3(4)/20-20.5'		
21	9	24	⋮		SP	SAND: Well sorted fine to very fine gray sand with brown mottling, trace silt. Moist, no staining or odor.
	11		⋮			
22	29		ND			
23						
24						
25						
	13		ND		OL	CLAY: Brown to Red-Brown varved clay with very fine sand. Moist, no staining and no odor.
26	14	24	⋮			
	16		⋮			
27	22		ND			
28						
29						
30						
	14		ND			CLAY: Same as Above
31	16	24	⋮			
	23		⋮			
32	32		ND			
33						
34						
						Bedrock (sandstone and diabase) at 34 feet.

Some of the soil lithology was provided by EWMA's Test Pit Logs completed in June 2000.

DRAI Job No. 01C2084
Arsenic RIR/Boring Logs/C3-4

DAN RAVIV ASSOCIATES INC.

57 E. Willow Street, Millburn, NJ 07041 (973) 564-6006

SOIL BORING LOG

BORING NUMBER

C3-5

Elevation: 12.3'

PROJECT NAME: Former Celotex **LOCATION:** Edgewater, New Jersey

PROJECT NO.: 01C2084 **CONTRACTOR:** Summit Drilling Co., Inc.

SAMPLER TYPE/DIA.: Split Spoon/2" **DEPTH TO WATER:** 10 feet

BORING METHOD: Air Rotary **TOTAL DEPTH DRILLED:** 34 feet

DATE DRILLED: **3/22/02, 03/26/02**

DRILLER: **S. Yotcoski**

LOGGED BY: **R. Tripodi, C. Watt**

DEPTH FROM SURFACE (FEET)	BLOW COUNT PER 6 IN.	RECOVERY (INCHES)	PID (ppm)	SAMPLE DESIGNATION	UNIFIED	LITHOLOGIC CLASSIFICATION AND COMMENTS
0						
1	16	12	ND			FILL: Light brown, gravelly SILT, some sand, dense.
	24		ND			
	31		5			
2	20		3	C3(5)/1.5-2.0'		
3	21	18	ND			FILL: Brown silty gravel and sand, plastic and metal debris, dense.
	17					
	19					
4	18		ND	C3(5)/3.5-4.0'		
5			ND			
6						
7						FILL: Black medium to coarse SAND, some fine gravel.
8						
9						FILL: Dark reddish-purple fine to coarse SAND.
10			ND		▽	
11	3	12	ND	C3(5)/10.0-10.5'		FILL: Loose ash and slag; fine gravel, staining and odors, product globules and sheen, saturated.
	2		2.1			
	5					
12	7		3.6			
13						
14	6	18	7			FILL: Purple gravel with loose oily sheen
	9		30			
	7		18			
15	1		20	C3(5)/14.5-15.0'	PT	PEAT: Dark brown to black, (roots present throughout). Staining and odors, product globules and sheen, saturated.
	4	24				

Some of the soil lithology was provided by EWMA's Test Pit Logs completed in June 2000.

DAN RAVIV ASSOCIATES INC.

57 E. Willow Street, Millburn, NJ 07041 (973) 564-6006

SOIL BORING LOG

BORING NUMBER **C3-5**

DEPTH FROM SURFACE (FEET)	BLOW COUNT PER 6 IN.	RECOVERY (INCHES)	PID (ppm)	SAMPLE DESIGNATION	UNIFIED	LITHOLOGIC CLASSIFICATION AND COMMENTS
	4		15		SW	SAND: Dark-gray, fine sand, staining and odors.
16	4		1.8			
	6		3.4			
17						
18						
19						
20						
	4		ND	C3(5)/20-20.5'		
21	7	24	⋮		SP	SAND: Well sorted fine to very fine gray and olive green sand, little silt. Moist, no staining or odor.
	9		⋮			
22	1		ND			
23						
24						
25						
	4		ND	C3-5/25.0-25.5'		
26	7	24	⋮			
	9		⋮		OL	CLAY: Brown to red-brown varved clay with very fine sand, soft. Slightly moist, no staining and no odor.
27	11		ND			
28						
29						
30						
	12		ND	C3-5/30.0-30.5'		CLAY: Same as Above
31	17	12	⋮			
	17		⋮			
32	23		ND			
33						
34						
						Bedrock (sandstone) at 34 feet.

Some of the soil lithology was provided by EWMA's Test Pit Logs completed in June 2000.

DRAI Job No. 01C2084
Arsenic RIR/Boring Logs/C3-5

DAN RAVIV ASSOCIATES INC.

57 E. Willow Street, Millburn, NJ 07041 (973) 564-6006

SOIL BORING LOG

BORING NUMBER

C3-6

Elevation: 11.9'

PROJECT NAME: Former Celotex **LOCATION:** Edgewater, New Jersey

PROJECT NO.: 01C2084 **CONTRACTOR:** Summit Drilling Co., Inc.

SAMPLER TYPE/DIA.: Split Spoon/2" **DEPTH TO WATER:** 9 feet

BORING METHOD: Air Rotary **TOTAL DEPTH DRILLED:** 28 feet

DATE DRILLED: **3/21/02, 03/26/02**

DRILLER: **S. Yotcoski**

LOGGED BY: **R. Tripodi, C. Watt**

DEPTH FROM SURFACE (FEET)	BLOW COUNT PER 6 IN.	RECOVERY (INCHES)	PID (ppm)	SAMPLE DESIGNATION	UNIFIED	LITHOLOGIC CLASSIFICATION AND COMMENTS
0						
1	16	10	ND			FILL: Light brown, sandy SILT, trace gravel, soft, medium dense.
	14					
	12					
2	12		ND	C3(6)/1.5-2.0'		
3	11	10	ND			
	7					
	9					
4	7		ND	C3(6)/3.5-4.0'		FILL: Brown, purplish-red, silty GRAVEL and sand, angular.
5			ND			
6						FILL: Black, medium to coarse SAND, some fine gravel.
7						
8						
9						FILL: Reddish-purple, fine to coarse SAND, trace gray clay.
10			ND			
11	6	24	9.5			FILL: dark brown to black silt with staining and odors; white powdery ash throughout.
	8		48			
	8		133	C3(6)/11-11.5'		
12	10		38			
13	16	24	25			
	10		130			FILL: Purplish-black sandy, silty gravel, angular. Medium dense. Saturated.
	8		77		SM	SILT: Brown to black, some gravel, purple staining, trace sand, some organics (meadowmat), dry.
14	8		25	C3(6)/13.5-14'		
15						
	0				SW	SAND: Dark brown to black, little silt, staining, odors and sheen

Some of the soil lithology was provided by EWMA's Test Pit Logs completed in June 2000.

DAN RAVIV ASSOCIATES INC. 57 E. Willow Street, Millburn, NJ 07041 (973) 564-6006	SOIL BORING LOG	BORING NUMBER C3-6

DEPTH FROM SURFACE (FEET)	BLOW COUNT PER 6 IN.	RECOVERY (INCHES)	PID (ppm)	SAMPLE DESIGNATION	UNIFIED	LITHOLOGIC CLASSIFICATION AND COMMENTS
	6		15	C3(6)/15-15.5'	SW	SAND: Dark brown to black, little silt, staining, odors and sheen. Fine to coarse gravel.
16	9	20	1.8			
	15		3.4			
17						
18						
19						
20						
	6		ND			
21	16	18	;		SP	SAND: Well sorted fine to very fine gray and olive green sand, little mottled silt.
	17		2.1	C3-5/21.5-22'		
22	28		ND			
23						
24						
25						
	20		ND	C3-6/25.0-25.5'		
26	21	24	;			
	25		;		OL	CLAY: Brown to Red-Brown varved clay with very fine sand, soft. Slightly moist, no staining and no odor.
27	90		ND			
28						SAND: Red-brown, well-sorted fine-grained sand.
						Bedrock (sandstone) at 28 feet.

DAN RAVIV ASSOCIATES INC.

57 E. Willow Street, Millburn, NJ 07041 (973) 564-6006

SOIL BORING LOG

BORING NUMBER

C3-10

Elevation: 13.1'

PROJECT NAME: Former Celotex **LOCATION:** Edgewater, New Jersey

PROJECT NO.: 01C2084 **CONTRACTOR:** Summit Drilling Co., Inc.

DATE DRILLED: **3/21/02, 03/25/02**

SAMPLER TYPE/DIA.: Split Spoon/2" **DEPTH TO WATER:** 9 feet

DRILLER: **S. Yotcoski**

BORING METHOD: Air Rotary **TOTAL DEPTH DRILLED:** 31.5 feet

LOGGED BY: **R. Tripodi, C. Watt**

DEPTH FROM SURFACE (FEET)	BLOW COUNT PER 6 IN.	RECOVERY (INCHES)	PID (ppm)	SAMPLE DESIGNATION	UNIFIED	LITHOLOGIC CLASSIFICATION AND COMMENTS
0						
1	2	6	ND			FILL: *Brown, sandy SILT, trace gravel, soft.*
	1					
	1					
2	3		ND	C3(10)/1.5-2.0'		
3	6	6	ND			FILL: Brownish-red, sandy silt, medium dense, trace gravel.
	7					
	9					
4	7		ND	C3(10)/3.5-4.0'		
5			ND			
6						
7	6	12				FILL: Dark brown to black silt, some sand and gravel, trace organics, some fine gravel.
	3					
	5					
8	4			C3(10)/7.5-8.0'		
9					▽	FILL: Reddish-purple, fine to coarse SAND, trace gray clay.
10						
11						
12						
13						
14						
15						
	32	24	ND		ML	SILT: Dark brown silt, soft with trace organics.

Some of the soil lithology was provided by EWMA's Test Pit Logs completed in June 2000.

DRAI Job No. 01C2084
Arsenic RIR/Boring Logs/C3-10

DAN RAVIV ASSOCIATES INC. 57 E. Willow Street, Millburn, NJ 07041 (973) 564-6006	SOIL BORING LOG	BORING NUMBER C3-10

DEPTH FROM SURFACE (FEET)	BLOW COUNT PER 6 IN.	RECOVERY (INCHES)	PID (ppm)	SAMPLE DESIGNATION	UNIFIED	LITHOLOGIC CLASSIFICATION AND COMMENTS
	3		ND	C3(10)/15-15.5'	ML	SILT: Dark brown silt, soft with trace organics.
16	4	21	ND		SW	SAND: Gray fine to medium poorly sorted sand, medium dense. Wet.
	7		ND			
17						
18						
19						
20						
	22		ND	C3(10)/20-20.5'		
21	26	20	⋮		SP	SAND: Well sorted fine to very fine gray and olive green sand, little silt. Moist, no staining or odor.
	36		⋮			
22	48		ND			
23						
24						
25						
	21		ND	C3(10)/25-25.5'	OL	CLAY: Brown to red-brown dense, varved clay with very fine sand. Slightly dry no staining and no odor.
26	34	24	⋮			
	35		⋮			
27	39		ND			
28						
29						
30						
	29				SW	SAND: Red-brown, medium to coarse with some gravel.
31	36	12				
	50/5"					
32						Bedrock (sandstone) at 31.5 feet.

DAN RAVIV ASSOCIATES INC.

57 E. Willow Street, Millburn, NJ 07041 (973) 564-6006

SOIL BORING LOG

BORING NUMBER

C3-14

Elevation: 12.7'

PROJECT NAME: Former Celotex **LOCATION:** Edgewater, New Jersey

PROJECT NO.: 01C2084 **CONTRACTOR:** Summit Drilling Co., Inc.

SAMPLER TYPE/DIA.: Split Spoon/2" **DEPTH TO WATER:** 9 feet

BORING METHOD: Air Rotary **TOTAL DEPTH DRILLED:** 23 feet

DATE DRILLED: **3/20/02, 03/25/02**

DRILLER: **S. Yotcoski**

LOGGED BY: **R. Tripodi, C. Watt**

DEPTH FROM SURFACE (FEET)	BLOW COUNT PER 6 IN.	RECOVERY (INCHES)	PID (ppm)	SAMPLE DESIGNATION	UNIFIED	LITHOLOGIC CLASSIFICATION AND COMMENTS
0						
1	5	12	ND			FILL: Light brown sand and silt, some gravel, medium dense.
	7					
	9					
2	10			C3(14)/1.5-2'		
3	10	6				FILL: Brown silt, some sand and gravel, medium dense, moist. Trace purple/red color at tip.
	22					
	17					
4	36		ND	C3(14)/3.5-4'		
5						
6						
7	5	11	ND			FILL: Dark brown sandy silt, some angular gravel, white ash throughout.
	7					
	9					
8	12		ND			FILL: Reddish-purple fine to coarse SAND.
9					▽	
10						
11						
12						
13						
14						
15						
					SP	SAND: Light-gray, well-sorted fine sand, moist.

Some of the soil lithology was provided by EWMA's Test Pit Logs completed in June 2000.

DRAI Job No. 01C2084
Arsenic RIR/Boring Logs/C3-14

DAN RAVIV ASSOCIATES INC. 57 E. Willow Street, Millburn, NJ 07041 (973) 564-6006	SOIL BORING LOG	BORING NUMBER C3-14

DEPTH FROM SURFACE (FEET)	BLOW COUNT PER 6 IN.	RECOVERY (INCHES)	PID (ppm)	SAMPLE DESIGNATION	UNIFIED	LITHOLOGIC CLASSIFICATION AND COMMENTS
16		20	1 ND 28	C3(14)/16.5-17'	SP	SAND: Light-gray, well-sorted fine sand, moist.
17						
18						
19						
20						
21		22	27 25		SM	SAND and SILT, red-brown, fine sand, very moist, some brown/olive green silt.
22			2.2 4	C3(14)/21.5-22'		
23						Bedrock (sandstone) at 23 feet.
24						
25						
26						
27						
28						

Some of the soil lithology was provided by
EWMA's Test Pit Logs completed in June 2000.

DRAI Job No. 01C2084
Arsenic RIR/Boring Logs/C3-14

DAN RAVIV ASSOCIATES INC.

57 E. Willow Street, Millburn, NJ 07041 (973) 564-6006

SOIL BORING LOG

BORING NUMBER

C3-15

Elevation: 12.5'

PROJECT NAME: Former Celotex **LOCATION:** Edgewater, New Jersey

PROJECT NO.: 01C2084 **CONTRACTOR:** Summit Drilling Co., Inc.

SAMPLER TYPE/DIA.: Split Spoon/2" **DEPTH TO WATER:** 8 feet

BORING METHOD: Air Rotary **TOTAL DEPTH DRILLED:** 23 feet

DATE DRILLED: **3/20/02, 03/25/02**

DRILLER: **S. Yotcoski**

LOGGED BY: **R. Tripodi, C. Watt**

DEPTH FROM SURFACE (FEET)	BLOW COUNT PER 6 IN.	RECOVERY (INCHES)	PID (ppm)	SAMPLE DESIGNATION	UNIFIED	LITHOLOGIC CLASSIFICATION AND COMMENTS
0						
1	8	18	ND			FILL: Light brown sand and silt, some gravel, medium dense.
	8					
	10					
2	12			C3(15)/1.5-2'		
3	7	10				FILL: Brown silt, some sand and gravel, medium dense, moist.
	12					
	5					
4	6		ND	C3(15)/3.5-4'		
5						
6						
7						FILL: Black medium to coarse SAND, some fine gravel.
8					▽	FILL: Reddish-purple fine to coarse SAND.
9						
10	5	9				FILL: Brown silt with white-gray sand, ash and rounded gravel.
	7					
	6					
11	8			C3(15)/10.5-11'		
12					OL	SILT: Gray with trace peat.
13						
14						
15						

Some of the soil lithology was provided by EWMA's Test Pit Logs completed in June 2000.

DRAI Job No. 01C2084
Arsenic RIR/Boring Logs/C3-15

DAN RAVIV ASSOCIATES INC. 57 E. Willow Street, Millburn, NJ 07041 (973) 564-6006	SOIL BORING LOG	BORING NUMBER C3-15

DEPTH FROM SURFACE (FEET)	BLOW COUNT PER 6 IN.	RECOVERY (INCHES)	PID (ppm)	SAMPLE DESIGNATION	UNIFIED	LITHOLOGIC CLASSIFICATION AND COMMENTS
16						
17						
18						
19						
20						
21		23	ND ND ND ND	C3(15)/20-20.5'	ML	SILT: Red-brown, some fine sand, wood debris (20 to 21.25 feet) moist to very moist, yellow sand lens at 20.25 feet.
22						
23		12		C3(15)/22.5-23'	SW	SAND: Red-brown, little silt, saturated.
						Bedrock (sandstone) at 23 feet.

Some of the soil lithology was provided by
EWMA's Test Pit Logs completed in June 2000.

DRAI Job No. 01C2084
Arsenic RIR/Boring Logs/C3-15

DAN RAVIV ASSOCIATES INC.

57 E. Willow Street, Millburn, NJ 07041 (973) 564-6006

SOIL BORING LOG

BORING NUMBER

C3-18

Elevation: 12.7'

PROJECT NAME: Former Celotex
LOCATION: Edgewater, New Jersey
PROJECT NO.: 01C2084
CONTRACTOR: Summit Drilling Co., Inc.
SAMPLER TYPE/DIA.: Split Spoon/2"
DEPTH TO WATER: 7 feet
BORING METHOD: Air Rotary
TOTAL DEPTH DRILLED: 28 feet
DATE DRILLED: **3/20/02, 03/25/02**
DRILLER: **S. Yotcoski**
LOGGED BY: **R. Tripodi, C. Watt**

DEPTH FROM SURFACE (FEET)	BLOW COUNT PER 6 IN.	RECOVERY (INCHES)	PID (ppm)	SAMPLE DESIGNATION	UNIFIED	LITHOLOGIC CLASSIFICATION AND COMMENTS
0						
1	3	6	ND			FILL: Dark red/purple brown silt, some medium-coarse sand and gravel, medium dense, moist, some ash.
	5					
	5					
2	10			C3(18)/1.5-2'		
3	5	9				FILL: Red/brown silt, some medium-coarse sand and gravel, concrete debris, dry.
	6					
	6					
4	5		ND	C3(18)/3.5-4'		
5						
6						
7						FILL: Black medium to coarse SAND, some fine gravel.
8						FILL: Reddish-purple fine to coarse SAND.
9						
10						
11						
12						
13	10	7	ND		ML	SILT: Brown with gravel, wet, medium dense.
	9					
	9					
14	11		ND	C3(18)/13.5-14'		
15						

Some of the soil lithology was provided by EWMA's Test Pit Logs completed in June 2000.

DRAI Job No. 01C2084
Arsenic RIR/Boring Logs/C3-18

DAN RAVIV ASSOCIATES INC. 57 E. Willow Street, Millburn, NJ 07041 (973) 564-6006	SOIL BORING LOG	BORING NUMBER C3-18

DEPTH FROM SURFACE (FEET)	BLOW COUNT PER 6 IN.	RECOVERY (INCHES)	PID (ppm)	SAMPLE DESIGNATION	UNIFIED	LITHOLOGIC CLASSIFICATION AND COMMENTS
16						
17						
18						
19		14	ND 11 14		SM	SAND: Red-brown to green sand and silt with fine to coarse gravel, moist, no staining or odor.
20						
21		16	ND | |	C3(18)/20-20.5'		SAND: same as above
22			ND			
23						
24						
25						
26						
27						
28						
						Bedrock (sandstone) at 28 feet.

Some of the soil lithology was provided by
EWMA's Test Pit Logs completed in June 2000.

DRAI Job No. 01C2084
Arsenic RIR/Boring Logs/C3-18

DAN RAVIV ASSOCIATES INC.

57 E. Willow Street, Millburn, NJ 07041 (973) 564-6006

SOIL BORING LOG

BORING NUMBER

C3-19

Elevation: 12.1'

PROJECT NAME: Former Celotex **LOCATION:** Edgewater, New Jersey

PROJECT NO.: 01C2084 **CONTRACTOR:** Summit Drilling Co., Inc.

DATE DRILLED: **3/20/02, 03/25/02**

SAMPLER TYPE/DIA.: Split Spoon/2" **DEPTH TO WATER:** 7 feet

DRILLER: **S. Yotcoski**

BORING METHOD: Air Rotary **TOTAL DEPTH DRILLED:** 22 feet

LOGGED BY: **R. Tripodi, C. Watt**

DEPTH FROM SURFACE (FEET)	BLOW COUNT PER 6 IN.	RECOVERY (INCHES)	PID (ppm)	SAMPLE DESIGNATION	UNIFIED	LITHOLOGIC CLASSIFICATION AND COMMENTS
0						
1	5	10	ND			FILL: Brown SILT and fine sand, some angular gravel.
	7					
	9					
2	7			C3(19)/1.5-2'		
3	13	24				FILL: Brown SILT, some sand, gravel and white ash throughout, moist.
	17					
	10					
4	11		ND	C3(19)/3.5-4'		FILL: Red/purple SILT, stiff and dry.
5						
6						
7	6	19	ND			FILL: Brown and purple SILT, some gray sand, gravel and yellow loose ash.
	21				▽	Wet at 7 feet.
	13					
8	16		ND	C3(19)/7.5-8'		
9						
10						
11						
12						
13						
14						
15						
		18	ND		SM	SAND: Red/brown sand, some silt, very moist, no staining and no odors.

Some of the soil lithology was provided by
EWMA's Test Pit Logs completed in June 2000.

DAN RAVIV ASSOCIATES INC. 57 E. Willow Street, Millburn, NJ 07041 (973) 564-6006	SOIL BORING LOG	BORING NUMBER C3-19

DEPTH FROM SURFACE (FEET)	BLOW COUNT PER 6 IN.	RECOVERY (INCHES)	PID (ppm)	SAMPLE DESIGNATION	UNIFIED	LITHOLOGIC CLASSIFICATION AND COMMENTS
16		18	ND ND ND	C3(19)/15-15.5'	SM	SAND: Red/brown sand, some silt, very moist, no staining and no odors.
17						
18						
19						
20						
21	31 31	19		C3(19)/20-20.5'	ML	SILT: Red/brown silt, trace fine sand and trace gravel, slightly moist.
22	18 87				SP	SAND: Light gray well-sorted fine to very fine sand.
23						Bedrock (sandstone) at 21.75 feet.
24						
25						
26						
27						
28						

Some of the soil lithology was provided by
EWMA's Test Pit Logs completed in June 2000.

DRAI Job No. 01C2084
Arsenic RIR/Boring Logs/C3-19

DAN RAVIV ASSOCIATES INC.

57 E. Willow Street, Millburn, NJ 07041 (973) 564-6006

SOIL BORING LOG

BORING NUMBER

SB-1

Elevation: 12.8'

PROJECT NAME: Former Celotex **LOCATION:** Edgewater, New Jersey

PROJECT NO.: 01C2084 **CONTRACTOR:** CT&E

DATE DRILLED: **03/27/02**

SAMPLER TYPE/DIA.: Split Spoon/2" **DEPTH TO WATER:** 9'

DRILLER: **Wess Eichfeld**

BORING METHOD: Air Rotary **TOTAL DEPTH DRILLED:** 34'

LOGGED BY: **Rose Tripodi**

DEPTH FROM SURFACE (FEET)	BLOW COUNT PER 6 IN.	RECOVERY (INCHES)	PID (ppm)	SAMPLE DESIGNATION	UNIFIED	LITHOLOGIC CLASSIFICATION AND COMMENTS
0						
1						Drilled to 2.4'
2						
3	14	12	ND			FILL: Loose, brown, fine SAND with little to some silt, fine to coarse gravel, slightly moist.
	22		|			
	14		|		
4	15		ND	SB(1)/3.4-3.9'		Loose brown SAND, little silt, some cinders and slag, wood debris, moist, and coal fragments.
	22	9	ND			
5	100/3"		|	SB(1)/4.4-4.9'		Loose fine brown SAND, some silt, fine gravel. GRAVEL with mica fragments, very dark brown sand, dry.
			|		
6			ND			
7	4	12	ND	SB(1)/6.8-7.3'		Loose cinders with ash, slag, and coal fragments, moist.
	5		|		
8	4		|		
	4		ND			
9					▽	
10						
11						
12						
13						
14						
15	4		ND		SP	SAND: Well sorted, gray/brown, very fine to fine, little to trace silt; saturated, slight odor.
	5		ND			

DAN RAVIV ASSOCIATES INC. 57 E. Willow Street, Millburn, NJ 07041 (973) 564-6006	SOIL BORING LOG	BORING NUMBER SB-1

DEPTH FROM SURFACE (FEET)	BLOW COUNT PER 6 IN.	RECOVERY (INCHES)	PID (ppm)	SAMPLE DESIGNATION	UNIFIED	LITHOLOGIC CLASSIFICATION AND COMMENTS
	5		ND			
16	7		1.2			
	5		1.5	SB(1)/ 15.9-16.4'		
17						
18						
19						
20						
21						
22						
	4		2.3		SP	SAND: Well sorted, fine, brown, little silt, saturated.
23	5	16	2.1			
	7		1.8			
24	5		4.6	SB(1)/23.4-23.9'	SC	SAND: Brown, fine, clayey, saturated.
25						
26						
27						
	20		ND	SB(1)/ 26.9-27.4'	CL	CLAY: Brown to red/brown, varved, medium plasticity, soft, no staining/odor.
28	20	21				
	25					
29	27		ND			
30						
31						
32						
	7		ND	SB(1)/ 31.9-32.4'		Same as above.
33	17	20				
	20					
34	21		ND			
						Bedrock at 34'

DAN RAVIV ASSOCIATES INC.

57 E. Willow Street, Millburn, NJ 07041 (973) 564-6006

SOIL BORING LOG

BORING NUMBER

SB-2

Elevation: 12.0'

PROJECT NAME: Former Celotex **LOCATION:** Edgewater, New Jersey

PROJECT NO.: 01C2084 **CONTRACTOR:** Summit Drilling Co., Inc.

DATE DRILLED: **03/27/02**

SAMPLER TYPE/DIA.: Split Spoon/2" **DEPTH TO WATER:** 3.5'

DRILLER: **S. Yotcoski**

BORING METHOD: Air Rotary **TOTAL DEPTH DRILLED:** 28'

LOGGED BY: **Chris Watt**

DEPTH FROM SURFACE (FEET)	BLOW COUNT PER 6 IN.	RECOVERY (INCHES)	PID (ppm)	SAMPLE DESIGNATION	UNIFIED	LITHOLOGIC CLASSIFICATION AND COMMENTS
0						
1						Drilled to 1.6'
2	16	10	1	SB(2)/1.6-2.1'		FILL: Black to dark brown SILT, dry, medium dense, some gravel, trace sand.
3	21 50/1"		ND --			
4	17	6	ND	SB(2)/3.6-4.1'	▽	Dark brown to black SILT, some angular gravel, wet, moderately dense.
5	19 10 11		-- -- --			
6						
7						
8						
9						
10						
11						
12						
13						
14	9 11 10	24	5 5 4	SB(2)/13.6-14.1'		FILL: Brown to gray silty fine SAND, loose moderately dense, wet, sheen and odor present.
15	7		4		SP	Gray fine SAND, moderately dense, wet, trace organics.

DAN RAVIV ASSOCIATES INC. 57 E. Willow Street, Millburn, NJ 07041 (973) 564-6006	SOIL BORING LOG	BORING NUMBER SB-2

DEPTH FROM SURFACE (FEET)	BLOW COUNT PER 6 IN.	RECOVERY (INCHES)	PID (ppm)	SAMPLE DESIGNATION	UNIFIED	LITHOLOGIC CLASSIFICATION AND COMMENTS
16						
17						
18						
19						
20						
21						
22	20 29 33	24	ND	SB(2)/21.1-21.6	CL	Red Brown CLAY, some to little medium sand and gravel, dense, dry
23	38		ND		SW	Light Brown very fine SAND, med dense, dry
24						
25						
26						
27	49 50/2	24	ND ND		ML	Red brown sandy SILT, some gravel, trace clay, dense, moist. White Sandstone and gravel in tip.
28						
						Bedrock (white sandstone) at 27 feet.

DAN RAVIV ASSOCIATES INC.

57 E. Willow Street, Millburn, NJ 07041 (973) 564-6006

SOIL BORING LOG

BORING NUMBER

SB-3

Elevation: 12.1'

PROJECT NAME: Former Celotex **LOCATION:** Edgewater, New Jersey

PROJECT NO.: 01C2084 **CONTRACTOR:** Summit Drilling Co., Inc.

SAMPLER TYPE/DIA.: Split Spoon/2" **DEPTH TO WATER:** ~10'

BORING METHOD: Air Rotary **TOTAL DEPTH DRILLED:** 27.5'

DATE DRILLED: **03/28/02**

DRILLER: **S. Yotcoski**

LOGGED BY: **Chris Watt**

DEPTH FROM SURFACE (FEET)	BLOW COUNT PER 6 IN.	RECOVERY (INCHES)	PID (ppm)	SAMPLE DESIGNATION	UNIFIED	LITHOLOGIC CLASSIFICATION AND COMMENTS
0						
1				SB(3)/1.7-2.2		FILL: Brown SILT and gravel.
2	16	10	26			
	50/5"		23			
3			17			
			--			
4	40	NR				
	50/1"					
5						
6						
7						
8						
9						
10					▽	
11						
12						
	16	18	27	SB(3)/12-12.5		
13	11		37			Red brown to black SILT, some gravel, little Dark purple color, wet.
	10		17		PT	PEAT: Brown SILT with Meadow mat organics
14	10		17			
15						

DAN RAVIV ASSOCIATES INC. 57 E. Willow Street, Millburn, NJ 07041 (973) 564-6006	SOIL BORING LOG	BORING NUMBER SB-3

DEPTH FROM SURFACE (FEET)	BLOW COUNT PER 6 IN.	RECOVERY (INCHES)	PID (ppm)	SAMPLE DESIGNATION	UNIFIED	LITHOLOGIC CLASSIFICATION AND COMMENTS
16						
17						
18						
19						
20						
21						
22	12 16 14	10	ND	SB(3)/21.2-21.7	CL	Red brown CLAY, medium dense, dry.
23	16		ND			
24						
25						
26						
27		31 46 50/2"	ND	SB(3)/26.2-26.7	SW	Red-brown medium to very fine sand, medium dense, trace gravel and silt, wet.
					GP	Blue-Black GRAVEL, large diabase/basalt, angular
28			ND			
						Bedrock (diabase) at 27.5 feet.

DAN RAVIV ASSOCIATES INC.

57 E. Willow Street, Millburn, NJ 07041 (973) 564-6006

SOIL BORING LOG

BORING NUMBER

SB-4

Elevation: 13.0'

PROJECT NAME: Former Celotex **LOCATION:** Edgewater, New Jersey

PROJECT NO.: 01C2084 **CONTRACTOR:** Summit Drilling Co., Inc.

DATE DRILLED: **03/26/02**

SAMPLER TYPE/DIA.: Split Spoon/2" **DEPTH TO WATER:** 13'

DRILLER: **S. Yotcoski**

BORING METHOD: Air Rotary **TOTAL DEPTH DRILLED:** 24.5'

LOGGED BY: **Chris Watt**

DEPTH FROM SURFACE (FEET)	BLOW COUNT PER 6 IN.	RECOVERY (INCHES)	PID (ppm)	SAMPLE DESIGNATION	UNIFIED	LITHOLOGIC CLASSIFICATION AND COMMENTS
0						
1						Drilled to 2'
2						
3	50/2"	0				
4						
5	50/2"	0				
6						
7						
8						
9						
10						
11						
12						
13	16	24	6	SB(4)/12.5-13.0'	▽	FILL: Dark gray, gravelly SAND, medium to coarse, some cinders and ash present.
	24		6			
	36		9			Pink/light red SAND, medium to coarse, some angular gravel, medium dense to dense, wet, little cinder/ash.
14	20		3			
15						

DAN RAVIV ASSOCIATES INC. 57 E. Willow Street, Millburn, NJ 07041 (973) 564-6006	SOIL BORING LOG	BORING NUMBER SB-4

DEPTH FROM SURFACE (FEET)	BLOW COUNT PER 6 IN.	RECOVERY (INCHES)	PID (ppm)	SAMPLE DESIGNATION	UNIFIED	LITHOLOGIC CLASSIFICATION AND COMMENTS
16						
17						
18						
19						
20						
21						
22						
23	21	19	ND	SB(4)/22.5-23.0'	ML	SILT: Light brown, clayey, some to little sand, trace gravel, wet.
	40		|		SC	SAND: Blue/gray to gray, clayey, some gravel, dense, wet.
24	50/4"		|		GM	GRAVEL: Fine, angular, with some sand.
			ND			Large, angular, gravel/ bedrock.
						Bedrock at 24.5 feet.

DAN RAVIV ASSOCIATES INC.

57 E. Willow Street, Millburn, NJ 07041 (973) 564-6006

SOIL BORING LOG

BORING NUMBER

SB-5

Elevation: 13.4'

PROJECT NAME: Former Celotex **LOCATION:** Edgewater, New Jersey

PROJECT NO.: 01C2084 **CONTRACTOR:** Summit Drilling Co., Inc.

SAMPLER TYPE/DIA.: Split Spoon/2" **DEPTH TO WATER:** ~9.5'

BORING METHOD: Air Rotary **TOTAL DEPTH DRILLED:** 25'

DATE DRILLED: **03/27/02**

DRILLER: **S. Yotcoski**

LOGGED BY: **Chris Watt**

DEPTH FROM SURFACE (FEET)	BLOW COUNT PER 6 IN.	RECOVERY (INCHES)	PID (ppm)	SAMPLE DESIGNATION	UNIFIED	LITHOLOGIC CLASSIFICATION AND COMMENTS
0						
1						Drilled to 2.4'
2						
3	50/2"					FILL: Large gravel and cobbles.
4		0				
5						
6		0				
7						
8						
9						
10					▽	
11						
12			3		ML	SILT: Black stained, some clay, organics, trace gravel, soft.
13		20	113 72 7	SB(5)/11.9-12.4'	SM	SAND: brown, silty, with organic peat.
14						
15						

DAN RAVIV ASSOCIATES INC. 57 E. Willow Street, Millburn, NJ 07041 (973) 564-6006	SOIL BORING LOG	BORING NUMBER SB-5

DEPTH FROM SURFACE (FEET)	BLOW COUNT PER 6 IN.	RECOVERY (INCHES)	PID (ppm)	SAMPLE DESIGNATION	UNIFIED	LITHOLOGIC CLASSIFICATION AND COMMENTS
16						
17						
18						
19						
20						
21						
22						
23						
24		20	3 1 ND ND	SB(5)/22.9-23.5'	SM GP	SAND:Red/brown, silty, medium to coarse, rounded, wet. GRAVEL: Blue/black, some silt and sand, very dense, wet, broken diabase.
25						Bedrock (diabase) at 24 feet.

DAN RAVIV ASSOCIATES INC.

57 E. Willow Street, Millburn, NJ 07041 (973) 564-6006

SOIL BORING LOG

BORING NUMBER

SB-6

Elevation: 14.0'

PROJECT NAME: Former Celotex **LOCATION:** Edgewater, New Jersey

PROJECT NO.: 01C2084 **CONTRACTOR:** Summit Drilling Co., Inc.

DATE DRILLED: **03/27/02**

SAMPLER TYPE/DIA.: Split Spoon/2" **DEPTH TO WATER:** 5'9"

BORING METHOD: Air Rotary **TOTAL DEPTH DRILLED:** 21.5'

DRILLER: **S. Yotcoski**

LOGGED BY: **Chris Watt**

DEPTH FROM SURFACE (FEET)	BLOW COUNT PER 6 IN.	RECOVERY (INCHES)	PID (ppm)	SAMPLE DESIGNATION	UNIFIED	LITHOLOGIC CLASSIFICATION AND COMMENTS
0						
1						Drilled to 2.8'
2						
3	50/2"					
4		0				
5			1	SB(6)/4.8-5.3'		GRAVEL: 5' - 5'1"
6		11	1		▽	SILT: Black, gravelly, some medium sand, moderately dense, wet at 5'9".
7			ND			
8			ND			
9						
10						
11						
12						
13						
14						
15		22	ND	SB(6)/14.8-15.3'	ML	SILT: Light red to red/brown, sandy, very dense, trace fine gravel, some yellow and green staining, moist.
			ND			

DAN RAVIV ASSOCIATES INC. 57 E. Willow Street, Millburn, NJ 07041 (973) 564-6006	SOIL BORING LOG	BORING NUMBER SB-6

DEPTH FROM SURFACE (FEET)	BLOW COUNT PER 6 IN.	RECOVERY (INCHES)	PID (ppm)	SAMPLE DESIGNATION	UNIFIED	LITHOLOGIC CLASSIFICATION AND COMMENTS
16			ND ND ND		ML	SILT: Red/brown, some sand, trace gravel, very dense, dry.
17						
18						
19						
20						
21		4	ND ND	SB(6)/20.8-21.3'	SW	SAND: Light grayish to brown, silty, moderately dense to loose, dry.
22						Bedrock (grayish sandstone) at 21.5'

DAN RAVIV ASSOCIATES INC.

57 E. Willow Street, Millburn, NJ 07041 (973) 564-6006

SOIL BORING LOG

BORING NUMBER

SB-7

Elevation: 16.2'

PROJECT NAME: Former Celotex **LOCATION:** Edgewater, New Jersey

PROJECT NO.: 01C2084 **CONTRACTOR:** Summit Drilling Co., Inc.

DATE DRILLED: **03/27/02**

SAMPLER TYPE/DIA.: Split Spoon/2" **DEPTH TO WATER:** ~14'

DRILLER: **S. Yotcoski**

BORING METHOD: Air Rotary **TOTAL DEPTH DRILLED:** 15'

LOGGED BY: **Chris Watt**

DEPTH FROM SURFACE (FEET)	BLOW COUNT PER 6 IN.	RECOVERY (INCHES)	PID (ppm)	SAMPLE DESIGNATION	UNIFIED	LITHOLOGIC CLASSIFICATION AND COMMENTS
0						
1	30	12	ND	SB(7)/1.5-2.0'		Blue/white Gravel and Roadstone
	50/2"		ND			FILL: Dark brown to dark grey sandy SILT, some gravel, very dense, dry.
2			ND			
3	50/5"	NR	ND			
			ND			
4			ND			
5	43	12	ND	SB(7)/5.5-6.0'		FILL: Dark Grey to black sandy SILT, little mottling, some gravel and debris, v dense, moist.
	33		ND			
	19		ND			
6	20		ND			FILL: Brown-black silty Gravel, debris including nails, rubber, rope, and wood, wet at 8 feet.
7			ND			
			ND			
8	50/5"	10	ND	SB(7)/7.75'		
			ND			
9			--			
10						
11	16	20	ND	SB(7)/12.4-12.9'		FILL: Brown SILT, trace sand and fine gravel, red/dark brown color staining.
	24		|		Silty, dense, sub-angular GRAVEL, dry.
	30		|		Light brown, gravelly SILT, very dense, dry, some to little medium sand.
12	23		|		
13	29	17	|		Brown to dark brown.
	36		|		FILL: red/purplish, gravelly SILT.
	40		|		Brown sandy SILT, some gravel, moderately dense.
14	36		|	▽	White to light green gravelly SAND with pieces of white sandstone, moist.
15	44	7	ND		GM	Large GRAVEL and sand, wet.
	50/1"		--			
						Bedrock (white sandstone) at ~15'

DRAI Job No. 01C2084
Arsenic RIR/Boring Logs/SB-7

DAN RAVIV ASSOCIATES INC.

57 E. Willow Street, Millburn, NJ 07041 (973) 564-6006

SOIL BORING LOG

BORING NUMBER

SB-8

Elevation: 16.3'

PROJECT NAME: Former Celotex **LOCATION:** Edgewater, New Jersey

PROJECT NO.: 01C2084 **CONTRACTOR:** CT&E

DATE DRILLED: **03/28/02**

SAMPLER TYPE/DIA.: Split Spoon/2" **DEPTH TO WATER:** 11'

DRILLER: **Wess Eichfeld**

BORING METHOD: Air Rotary **TOTAL DEPTH DRILLED:** 16'

LOGGED BY: **Rose Tripodi**

DEPTH FROM SURFACE (FEET)	BLOW COUNT PER 6 IN.	RECOVERY (INCHES)	PID (ppm)	SAMPLE DESIGNATION	UNIFIED	LITHOLOGIC CLASSIFICATION AND COMMENTS
0						
	11	8	ND			Blue/white GRAVEL and Roadstone, dense, dry.
1	44		ND			FILL: Black GRAVEL with red sand and silt, trace deep purple silt, dense, dry.
	50/1"		ND			
2			--	SB(8)/1.5-2.0'		
	29	NR	--			
3	50/4"		--			
			--			
4			--			
	17	17	ND	SB(8)/4-4.5'		FILL: Brown SILT, little to some fine sand, trace gravel, trace to little moisture. Wet at 6 feet
5	21		ND			
	14		ND			
6	18	6	ND	SB(8)/5.7-6.2'		FILL: very loose, fine, red/brown SAND with fine to coarse gravel, large piece of sandstone at nose of core, diabase fragment, dry, piece of cloth.
	28		ND			
7	68		--			
	109/2"		--			
8	12	8	ND	SB(8)/7.7-8.2'		Loose, brown to red/brown, fine SAND, trace silt, fine gravel and sandstone fragment, dry.
	90		ND			
9	69		--			
	15		--			
10						
11					▽	
12						
13						
	5	12	ND	SB(8)/13.0-13.5'	SC	Red/brown to brown, clayey, fine SAND, fine to coarse gravel, sandstone fragment, saturated, no staining or odor.
14	35		ND			
15						
						Bedrock (sandstone) at 16'

DAN RAVIV ASSOCIATES INC.

57 E. Willow Street, Millburn, NJ 07041 (973) 564-6006

SOIL BORING LOG

BORING NUMBER

SB-9

Elevation: 16.4'

PROJECT NAME: Former Celotex **LOCATION:** Edgewater, New Jersey

PROJECT NO.: 01C2084 **CONTRACTOR:** CT&E

DATE DRILLED: **03/28/02**

SAMPLER TYPE/DIA.: Split Spoon/2" **DEPTH TO WATER:** 12'

DRILLER: **Wess Eichfeld**

BORING METHOD: Air Rotary **TOTAL DEPTH DRILLED:** 15'

LOGGED BY: **Rose Tripodi**

DEPTH FROM SURFACE (FEET)	BLOW COUNT PER 6 IN.	RECOVERY (INCHES)	PID (ppm)	SAMPLE DESIGNATION	UNIFIED	LITHOLOGIC CLASSIFICATION AND COMMENTS
0						
1	16 20	15	ND			Blue/white Gravel and Roadstone, dense, dry. FILL: Dark grey clayey SILT, dense, dry, some red-brown mottles, trace roots, trace medium sand.
2	8 7		ND ND	SB(9)/1.5-2.0'		
3	11 36	13	ND			FILL: Red-brown fine to medium SAND, trace silt, trace angular to subangular small gravel, trace moisture.
4	40 29		ND ND	SB(9)/3.5-4.0'		
5	11 9 15	18				
6	15	6	1.8	SB(9)/5.8-6.3'		FILL: Red/brown, loose, fine SAND, mica fragments, sandstone fragments, fine gravel, dry.
7	45 50/3"		ND --			
8	10	12	0.8			Red/brown SILT, some fine sand, sandstone fragments, dry.
9	55 56 30		ND -- --			
10	8	4	ND			Brown, clayey-fine SAND, fine to coarse gravel, brick and wood fragments, moist to very moist.
11	6 11 13		ND -- --			
12	21	8	ND	SB(9)/11.8-12.3'	GP	Fine to coarse GRAVEL with some brown fine sand mixed throughout, loose, saturated.
13	42 45 32		ND -- --			
14						
15						
						Bedrock (sandstone) at 15'

DAN RAVIV ASSOCIATES INC.

57 E. Willow Street, Millburn, NJ 07041 (973) 564-6006

SOIL BORING LOG

BORING NUMBER

SB-10

Elevation: 16.4'

PROJECT NAME: Former Celotex **LOCATION:** Edgewater, New Jersey

PROJECT NO.: 01C2084 **CONTRACTOR:** Summit Drilling Co., Inc.

DATE DRILLED: **04/01/02**

SAMPLER TYPE/DIA.: Split Spoon/2" **DEPTH TO WATER:** 6 feet

DRILLER: **S. Yotcoski**

BORING METHOD: Air Rotary **TOTAL DEPTH DRILLED:** 17 feet

LOGGED BY: **Chris Watt**

DEPTH FROM SURFACE (FEET)	BLOW COUNT PER 6 IN.	RECOVERY (INCHES)	PID (ppm)	SAMPLE DESIGNATION	UNIFIED	LITHOLOGIC CLASSIFICATION AND COMMENTS
0						
1	16	17	ND			FILL: Brown Sandy SILT, trace Gravel, trace grass & roots, med dense, dry.
	14					
	12					FILL: Dark brown-black Sandy SILT, trace to little slag material and gravel, brick, concrete, med-dense dry.
2	12		ND	SB(10)/1.5-2.0'		
3	26	20	ND			FILL: Red/brown Silty fine to medium SAND, little gravel, little to trace yellow/green sand and mica/schist frags., medium dense, dry.
	34					
	10					
4	14		ND	SB(10)/3.5-4.0'		
5						
6	5	13	ND	SB(10)/5.8-6.3'	▽	FILL: Brown SILT, some sand, medium dense, wet
	7					
7	39					FILL: Black mica schist
	50/2"		ND			FILL: Brown SILT, soft, wet.
8	7	7	ND	SB(10)/7.8-8.3'		
	9					FILL: Brown to dark brown clayey silt, some-little gravel, medium dense.
9	30					
	50/1"		ND			
10				SB(10)/9.5-10'		Dark purple silt at 9.5-10 ft-bgs.
11						
	11	16		SB(10)/11.1-11.6	SW	Red-brown SAND, some rust color throught, medium dense, wet
12	16					
	14					
13	16					Grey to brown fine to medium SAND, med dense, wet. coarse at 14 feet.
	7	24				
14	9					Brown to redbrown very fine SAND, med dense, wet.
	8					
15	8					

DAN RAVIV ASSOCIATES INC. 57 E. Willow Street, Millburn, NJ 07041 (973) 564-6006	SOIL BORING LOG	BORING NUMBER SB-10

DEPTH FROM SURFACE (FEET)	BLOW COUNT PER 6 IN.	RECOVERY (INCHES)	PID (ppm)	SAMPLE DESIGNATION	UNIFIED	LITHOLOGIC CLASSIFICATION AND COMMENTS
	17	24	ND	SB(10)/15.6-16.1'	SW	Same as above with with puple tint
16	19					
	40			SB(10)/16.1-16.6'		
17	50/4"		ND			
						Bedrock (white sandstone) at 17.1 feet.

DAN RAVIV ASSOCIATES INC.

57 E. Willow Street, Millburn, NJ 07041 (973) 564-6006

SOIL BORING LOG

BORING NUMBER

SB-20

Elevation: 13.8'

PROJECT NAME: Former Celotex **LOCATION:** Edgewater, New Jersey

PROJECT NO.: 01C2084 **CONTRACTOR:** Summit Drilling Co., Inc.

SAMPLER TYPE/DIA.: Split Spoon/2" **DEPTH TO WATER:** 10 feet

BORING METHOD: Air Rotary **TOTAL DEPTH DRILLED:** 40.4 feet

DATE DRILLED: **04/05/02**

DRILLER: **S. Yotcoski**

LOGGED BY: **Chris Watt**

DEPTH FROM SURFACE (FEET)	BLOW COUNT PER 6 IN.	RECOVERY (INCHES)	PID (ppm)	SAMPLE DESIGNATION	UNIFIED	LITHOLOGIC CLASSIFICATION AND COMMENTS
0						
1						Drilled to 7.8'
2						
3						
4						
5						
6						
7						
8						
9	7 11	5	7 31			FILL: Brown SILT, medium dense, trace gravel, black stained wood in tip, some tar-like substance with sheen.
10	15 14		17 --		▽	
11						
12						
13						
14						
15						

DAN RAVIV ASSOCIATES INC. 57 E. Willow Street, Millburn, NJ 07041 (973) 564-6006	SOIL BORING LOG	BORING NUMBER SB-20

DEPTH FROM SURFACE (FEET)	BLOW COUNT PER 6 IN.	RECOVERY (INCHES)	PID (ppm)	SAMPLE DESIGNATION	UNIFIED	LITHOLOGIC CLASSIFICATION AND COMMENTS
16	16	24	17	SB(20)/15.4-15.9'	SW	SAND: Dark gray, fine to medium, medium dense, sheen
	14		21			
17	14		5			
	14		2	SB(20)/16.9-17.4'		
18						
19						
20						
21						
22						
23						
	14	24	5	SB(20)/22.9-23.4'	SW	SAND: Brown, medium to fine, medium dense, wet. Some sheen.
24	13		3			
	13		2			
25	14		1			
26						
27	14	24	4	SB(20)/26.4-26.9'	SW	SAND: Red/brown to brown, fine to medium.
	14		1	SB(20)/26.9-27.4'		
28	7		1			
	9		1		ML	SILT: Red/Brown to brown clayey-SILT.
29						
30						
31						
32	9	24	ND	SB(20)/31.4-31.9'	CL	CLAY: Light brown to dark gray, very dense, dry.
	13		ND	SB(20)/31.9-32.4'		
33	14		ND			
	23		ND			
34						
35						
36						

DAN RAVIV ASSOCIATES INC. 57 E. Willow Street, Millburn, NJ 07041 (973) 564-6006	SOIL BORING LOG	BORING NUMBER SB-20

DEPTH FROM SURFACE (FEET)	BLOW COUNT PER 6 IN.	RECOVERY (INCHES)	PID (ppm)	SAMPLE DESIGNATION	UNIFIED	LITHOLOGIC CLASSIFICATION AND COMMENTS
					ML	SILT: Red/brown, dry.
37	40	7	ND	SB(20)/36.9-37.4'		
	30		|		
38	29		|		
	50/3"		ND			
39	50	7	ND	SB(20)/38.4-38.9'	SW	SAND: Red/brown coarse, with gravel.
	50/1"		|		
40			|			
			ND			
41						Bedrock (basalt) at 40'

DAN RAVIV ASSOCIATES INC.

57 E. Willow Street, Millburn, NJ 07041 (973) 564-6006

SOIL BORING LOG

BORING NUMBER

SB-22

Elevation: 12.8'

PROJECT NAME: Former Celotex **LOCATION:** Edgewater, New Jersey

PROJECT NO.: 01C2084 **CONTRACTOR:** Summit Drilling Co., Inc.

DATE DRILLED: **04/03/02**

SAMPLER TYPE/DIA.: Split Spoon/2" **DEPTH TO WATER:** 8 feet

DRILLER: **S. Yotcoski**

BORING METHOD: Air Rotary **TOTAL DEPTH DRILLED:** 28 feet

LOGGED BY: **Chris Watt**

DEPTH FROM SURFACE (FEET)	BLOW COUNT PER 6 IN.	RECOVERY (INCHES)	PID (ppm)	SAMPLE DESIGNATION	UNIFIED	LITHOLOGIC CLASSIFICATION AND COMMENTS
0						
1						Drilled to 2'
2						
3	16	16	ND			FILL: Black-stained SILT, some gravel, moist dense.
	20					
	30					
4	50/1"		ND	SB(22)/3.4-3.9'		
5	50/2"	0	--			
			--			
			--			
6			--			
7	16	24	ND	SB(22)/6.8-7.3'		FILL: Black SILT, some gravel.
	30					FILL: Dark purple, silty GRAVEL, medium dense.
	20					FILL: Black SILT, white material throughout, brown/gray coarse sandy gravel, wet.
8	19		ND		▽	
9	9	0	--			
	11		--			
	7		--			
10	9		--			
11	13	10	ND		PT	PEAT: Dark brown silty meadow mat, dense, wet.
	14					
	10					
12	10		ND			
13						
14						
15					SW	SAND: Dark brown gray, fine to medium, with trace organics, dense, wet.

DAN RAVIV ASSOCIATES INC. 57 E. Willow Street, Millburn, NJ 07041 (973) 564-6006	SOIL BORING LOG	BORING NUMBER SB-22

DEPTH FROM SURFACE (FEET)	BLOW COUNT PER 6 IN.	RECOVERY (INCHES)	PID (ppm)	SAMPLE DESIGNATION	UNIFIED	LITHOLOGIC CLASSIFICATION AND COMMENTS
	9		ND		SW	SAND: Gray, fine, wet, dense
16	11	24	|	SB(22)/15.9-16.4'		
	12		|			
17	12		ND			
18						
19						
20						
21						
22						
	17		ND		SM	SAND: Light brown, very fine, silty, dense, trace small gravel.
23	15	24	|			
	15		|			
24	16		ND	SB(22)/23.4-23.9'	SM	SAND: Red/brown, very fine, silty.
25						
26						
	30		ND			
27	31	24	|			
	50		|	SB(22)/26.9-27.4'		
28	50/5"		ND		SW	SAND: red/brown, coarse to fine.
						Bedrock at 28'

DAN RAVIV ASSOCIATES INC.

57 E. Willow Street, Millburn, NJ 07041 (973) 564-6006

SOIL BORING LOG

BORING NUMBER

SB-23

Elevation: 12.8'

PROJECT NAME: Former Celotex **LOCATION:** Edgewater, New Jersey

PROJECT NO.: 01C2084 **CONTRACTOR:** Summit Drilling Co., Inc.

DATE DRILLED: **04/03/02**

SAMPLER TYPE/DIA.: Split Spoon/2" **DEPTH TO WATER:** 9 feet

DRILLER: **S. Yotcoski**

BORING METHOD: Air Rotary **TOTAL DEPTH DRILLED:** 28 feet

LOGGED BY: **Chris Watt**

DEPTH FROM SURFACE (FEET)	BLOW COUNT PER 6 IN.	RECOVERY (INCHES)	PID (ppm)	SAMPLE DESIGNATION	UNIFIED	LITHOLOGIC CLASSIFICATION AND COMMENTS
0						
1						Drilled to 2'
2						
3	16	12	ND	SB(23)/2.4-2.9'		FILL: Brown to red/brown SILT, some gravel, wood fragments.
	36		ND			
	50/3"		1			
4			ND			
5	41	7	ND	SB(23)/4.4-4.9'		Same as above, dry.
	50/2"		ND			
			--			
6			--			
7	50/5"	<2	ND			FILL: Loose, dry GRAVEL.
			--			
			--			
8			--			
9	16	9	ND		▽	FILL: Brown to dark brown, gravelly-SILT with brown shaley fragments and white soft, sticky material, wet, sheen present.
	20		ND			
	12		ND			
10	15		--			
11	14	18	3			Black stained, heavy sheen, possible product.
	13		33		PT	PEAT: Brown, silty.
	13		21			
12	10		4			
13	7	18	3			
	8		6			
	8		11		SW	SAND: brown to dark gray fine-grained, with organics, dense, wet.
14	9		9			
15	13	20	2			
	10		2	SB(23)/14.4-14.9'		
	10		ND			

DAN RAVIV ASSOCIATES INC. 57 E. Willow Street, Millburn, NJ 07041 (973) 564-6006	SOIL BORING LOG	BORING NUMBER SB-23

DEPTH FROM SURFACE (FEET)	BLOW COUNT PER 6 IN.	RECOVERY (INCHES)	PID (ppm)	SAMPLE DESIGNATION	UNIFIED	LITHOLOGIC CLASSIFICATION AND COMMENTS
					SW	SAND: Gray to light pink, fine, dense, wet.
16	12		ND			
	4		ND			
17	7	10	ND			
	6		--			
18	5		--			
19						
20						
21						
	14		ND		SM	SAND: Dark gray, silty, some small gravel, wet, dense.
22	17	21	|			
	20		|	SB(23)/21.9-22.4'	ML	SILT: light brown to red/brown, clayey, some mottling very dense, dry.
23	20		ND			
24						
25						
26						
	40		ND		ML	SILT: Red/brown, clayey, with cobbles and gravel, wet, medium dense.
27	50/5"	24	|			
			|	SB(23)/26.9-27.4'		
28			ND		SM	SAND: red/brown, coarse, some gravel, basalt in tip.
						Bedrock (basalt) at 28 feet

DAN RAVIV ASSOCIATES INC.

57 E. Willow Street, Millburn, NJ 07041 (973) 564-6006

SOIL BORING LOG

BORING NUMBER

SB-24

Elevation: 14.5'

PROJECT NAME: Former Celotex **LOCATION:** Edgewater, New Jersey

PROJECT NO.: 01C2084 **CONTRACTOR:** Summit Drilling Co., Inc.

DATE DRILLED: **04/06/02**

SAMPLER TYPE/DIA.: Split Spoon/2" **DEPTH TO WATER:** 8 feet

DRILLER: **S. Yotcoski**

BORING METHOD: Air Rotary **TOTAL DEPTH DRILLED:** 26 feet

LOGGED BY: **Rose Tripodi**

DEPTH FROM SURFACE (FEET)	BLOW COUNT PER 6 IN.	RECOVERY (INCHES)	PID (ppm)	SAMPLE DESIGNATION	UNIFIED	LITHOLOGIC CLASSIFICATION AND COMMENTS
0						
1						Drilled to 2'
2						
3	16 50/1"	6	ND ND			FILL: Loose brown fine SAND, fine to coarse gravel, brick and coal fragments, dry.
4	-- --		-- --			
5	50/3" --	3	ND --			FILL: Loose gray/brown fine SAND, little silt, fine to coarse gravel, large gravel at tip of spoon.
6	-- --		-- --			
7	50/3" --	3	ND --	SB(24)/6.1-6.6'		FILL: Loose dark brown fine SAND, some silt, fine to coarse gravel, wood debris.
8	-- --		-- --		▽	
9	16 50/4"	5	ND ND			FILL: Black fine SAND, fine to coarse gravel, wood debris, staining, odors and sheen present.
10	-- --		-- --			
11						
12						
13						
14						
15	11 9	24	20 6	SB(24)/14.4-14.9'	OL	SILT: Brown organic moist.

DAN RAVIV ASSOCIATES INC. 57 E. Willow Street, Millburn, NJ 07041 (973) 564-6006	SOIL BORING LOG	BORING NUMBER SB-24

DEPTH FROM SURFACE (FEET)	BLOW COUNT PER 6 IN.	RECOVERY (INCHES)	PID (ppm)	SAMPLE DESIGNATION	UNIFIED	LITHOLOGIC CLASSIFICATION AND COMMENTS
						Same as above
16	9	24	9.8			
	8		2		SP	SAND: Gray, well sorted, fine, some silt, roots present throughout, very moist.
17						
18						
19						
20						
	40		ND		SM	SAND: Gray brown to green fine sand, little silt, very moist, fine sandstone fragments.
21	36	18	|			
	49		|			
22	47		ND			
23						
24	45		ND		CL	CLAY: Red/brown, varved, soft with fine sand.
	56	19	|			
25	49		|		
	75		ND			
26						Weathered sandstone and red/brown fine sand.
						Bedrock (sandstone) at 26'
27						
28						

DAN RAVIV ASSOCIATES INC.

57 E. Willow Street, Millburn, NJ 07041 (973) 564-6006

SOIL BORING LOG

BORING NUMBER

SB-25

Elevation: 12.2'

PROJECT NAME: Former Celotex **LOCATION:** Edgewater, New Jersey

PROJECT NO.: 01C2084 **CONTRACTOR:** Summit Drilling Co., Inc.

DATE DRILLED: **04/06/02**

SAMPLER TYPE/DIA.: Split Spoon/2" **DEPTH TO WATER:** 7 feet

DRILLER: **S. Yotcoski**

BORING METHOD: Air Rotary **TOTAL DEPTH DRILLED:** 13.7 feet

LOGGED BY: **Rose Tripodi**

DEPTH FROM SURFACE (FEET)	BLOW COUNT PER 6 IN.	RECOVERY (INCHES)	PID (ppm)	SAMPLE DESIGNATION	UNIFIED	LITHOLOGIC CLASSIFICATION AND COMMENTS
0						
1						Drilled to 1'
2	24 29	6	ND ND	SB(25)/1.2-1.7'		FILL: Gray SILT and fine sand, fine to coarse gravel.
3	30 19		-- --			
4		14	ND ND	SB(25)/3.2-3.7'		
5			-- --			FILL: Black fine SAND, little silt, brick and coal fragments, slightly moist.
6		15	ND ND			FILL: Gray brown SILT, little fine sand and fine gravel, slightly moist
7			ND --		▽	
8		6	ND 2			FILL: Black fine SAND, little silt, fine gravel, wood debris, staining odors and sheen present throughout.
9			-- --			
10		8	ND ND			
11			-- --			
12		11	1.8 0.8	SB(25)11.7-12.2'		FILL: Black fine SAND, little silt, some cinders and ash, strong odors and staining, very moist, plastic debris and wood at 13.1 to 13.7 feet.
13			-- --			
14						End of boring at 13.7'
15						

DAN RAVIV ASSOCIATES INC.

57 E. Willow Street, Millburn, NJ 07041 (973) 564-6006

SOIL BORING LOG

BORING NUMBER

SB-26

Elevation: 12.6'

PROJECT NAME: Former Celotex **LOCATION:** Edgewater, New Jersey

PROJECT NO.: 01C2084 **CONTRACTOR:** Summit Drilling Co., Inc.

DATE DRILLED: **04/04/02**

SAMPLER TYPE/DIA.: Split Spoon/2" **DEPTH TO WATER:** 10 feet

DRILLER: **S. Yotcoski**

BORING METHOD: Air Rotary **TOTAL DEPTH DRILLED:** 24 feet

LOGGED BY: **Chris Watt**

DEPTH FROM SURFACE (FEET)	BLOW COUNT PER 6 IN.	RECOVERY (INCHES)	PID (ppm)	SAMPLE DESIGNATION	UNIFIED	LITHOLOGIC CLASSIFICATION AND COMMENTS
0						
1						Drilled to 1.6' FILL: Brown, gravelly SILT, some little black staining, trace medium sand.
2	21	14	ND	SB(26)/1.6-2.1'		
	36		|			
3	31		|		
	50/5"		ND			FILL: Brown sandy-SILT, brick and wood fragments.
4	16	14	ND			
	21		|		
5	40		|		FILL: Black to dark brown gravelly SILT
	50/1"		ND	SB(26)/5.1-5.6'		
6						
7						
8						
9						
10					▽	
11	11	24	72	SB(26)/10.6-11.1'		Dark purple coarse sandy GRAVEL, medium dense.
	7		144	SB(26)/11.1'-11.5'	ML	SILT: Dark brown to black, with organics, trace sand, strong odor.
12	9		33			
	5		48			
13						
14						
15						

DAN RAVIV ASSOCIATES INC. 57 E. Willow Street, Millburn, NJ 07041 (973) 564-6006	SOIL BORING LOG	BORING NUMBER SB-26

DEPTH FROM SURFACE (FEET)	BLOW COUNT PER 6 IN.	RECOVERY (INCHES)	PID (ppm)	SAMPLE DESIGNATION	UNIFIED	LITHOLOGIC CLASSIFICATION AND COMMENTS
16						
17						
18						
19						
20						
21						
22						
23	21 33 50/5"	6	ND I ND		ML	SILT: brown with trace gravel, wet.
24			–			Bedrock (white sandstone) at 24'

DAN RAVIV ASSOCIATES INC.

57 E. Willow Street, Millburn, NJ 07041 (973) 564-6006

SOIL BORING LOG

BORING NUMBER

SB-27

Elevation: 13.6'

PROJECT NAME: Former Celotex **LOCATION:** Edgewater, New Jersey

PROJECT NO.: 01C2084 **CONTRACTOR:** Summit Drilling Co., Inc.

DATE DRILLED: **04/06/02**

SAMPLER TYPE/DIA.: Split Spoon/2" **DEPTH TO WATER:** 8.5 feet

DRILLER: **S. Yotcoski**

BORING METHOD: Air Rotary **TOTAL DEPTH DRILLED:** 16.5 feet

LOGGED BY: **Rose Tripodi**

DEPTH FROM SURFACE (FEET)	BLOW COUNT PER 6 IN.	RECOVERY (INCHES)	PID (ppm)	SAMPLE DESIGNATION	UNIFIED	LITHOLOGIC CLASSIFICATION AND COMMENTS
0						
1	30	12	ND			FILL: Fine to coarse GRAVEL, brown fine sand, some silt, brick and wood fragments.
2	41					
	50/2"					
	--					
3	40	10		SB(27)/2.4-2.9'		
4	50/5"					
	--					
	--					
5	28	11		SB(27)/4.4-4.9'		FILL: Brown fine SAND and silt, brick fragments some black staining.
6	31					
	50/2					
	--					
7	31	13				FILL: Brown SILT and fine sand, fine to coarse gravel, wood debris, coal fragments.
8	50/4				▽	
	--					
	--					
9	21	4				FILL: Fine brown SAND, some silt, gravel, wood debris.
10	15					
	17					
	20					
11	--	16				FILL: Gray brown fine SAND, some silt, wood debris, gypsum throughout,
	--					
12	--					
	--		ND			
13						
14						
15	29	22	ND	SB(27)/14.4-14.9'		SILT: Red-brown/green, some fine sand.
	36		ND			

DAN RAVIV ASSOCIATES INC. 57 E. Willow Street, Millburn, NJ 07041 (973) 564-6006	SOIL BORING LOG	BORING NUMBER SB-27

DEPTH FROM SURFACE (FEET)	BLOW COUNT PER 6 IN.	RECOVERY (INCHES)	PID (ppm)	SAMPLE DESIGNATION	UNIFIED	LITHOLOGIC CLASSIFICATION AND COMMENTS
16	40 63	22	ND ND		ML	SILT: Red-brown/green, some fine sand. Bedrock (white sandstone) at 16.5 feet.

DAN RAVIV ASSOCIATES INC.

57 E. Willow Street, Millburn, NJ 07041 (973) 564-6006

SOIL BORING LOG

BORING NUMBER

SB-31

Elevation:

PROJECT NAME: Former Celotex **LOCATION:** Edgewater, New Jersey

PROJECT NO.: 01C2084 **CONTRACTOR:** Summit Drilling Co., Inc.

DATE DRILLED: **04/06/02**

SAMPLER TYPE/DIA.: Split Spoon/2" **DEPTH TO WATER:** 8 feet

DRILLER: **S. Yotcoski**

BORING METHOD: Air Rotary **TOTAL DEPTH DRILLED:** 15.5 feet

LOGGED BY: **Rose Tripodi**

DEPTH FROM SURFACE (FEET)	BLOW COUNT PER 6 IN.	RECOVERY (INCHES)	PID (ppm)	SAMPLE DESIGNATION	UNIFIED	LITHOLOGIC CLASSIFICATION AND COMMENTS
0						
1						
2						
	12	8	ND	SB(31)/2-2.5'		FILL: Loose brown fine SAND, little silt, fine gravel, dry.
3	19		ND			
	23		--			
4	50/1"		--			
	39	8	ND	SB(31)/4-4.5'		
5	50/5"		0.8			Same as above with wood debris and coal fragments
	--		--			
6	--		--			
7						
8					▽	
	18	4	ND			SAND: Orange-brown, clayey, wet no staining or odors.
9	56		ND			
	40		--			
10	31		--			
11						
12	16	13	0.2	SB(31)/11.6-12.1'		SAND: Orange-brown, fine, with fine to coarse gravel, little silt.
	9		0.3			
13	11		ND			
	14		--			
14	33	15	ND		ML	SILT: Yellow-brown, some fine sand, blue gray shale fragments throughout.
	46		ND			
15	50/3"		ND			
						Bedrock (white sandstone) at 15'

APPENDIX B

APPENDIX B

EWMA Test Pit Logs

ENVIRONMENTAL WASTE MANAGEMENT ASSOCIATES, INC.
PO Box 5430, Parsippany, NJ, 07054
Phone: (973) 560-1400 Fax: (973) 560-0400

Test Pit Excavation Log for: C3-1

Site Name: Edgewater	EWMA Job #: 200754	Test Pit Depth: 14'
Owner: Scott Heller	NJDEP Program #:	Test Pit Length: 10'
Location: 1 River Rd. Edgewater, NJ	Test Pit Install Date: June 8,2000	Test Pit Width: 10'
	Test Pit Completion Date: June 8, 2000	
Type of Excavator: Trackhoe	Contractor: EWMA	G.W. Encountered: 9'
Sampling Method: Disposable Scoop	Operator: John	Static Water:
	Geologist: Scott Bisbort	

Depth (ft.)	Sample ID and Depth	PID (Meter Units)	Soil Type		Soil/Geologic Description	Depth (ft.)
		0	SM	0-4'	dark brown fine to coarse SAND and SILT, some rocks, wood, brick and cement fragments	
1		0				1
		0				
2		0				2
		0				
3		0				3
		0				
4	C3-1A	0				4
	C3-1B	0		4'-4.5'	3-inch gravel with asphalt/tar	
5		0	Fill	4.5'-10'	reddish-purple fine to coarse SAND with black product @ 7.0'	5
		0				
6		0				6
		0				
7		0				7
		0				
8		0				8
		0				
9		0				9
		25				
10	C3-1C	0				10
		0	OL	10'-14'	grey SILT with trace meadow mat	
11		0				11
		0				
12		0				12
		0				
13		0				13
		0				
14	C3-1D	0				14
15				Pit Ends @ 14.0'		15
16						16
17						17
18						18
19						19
20						20
21						21
22						22
23						23
24						

ENVIRONMENTAL WASTE MANAGEMENT ASSOCIATES, INC.
PO Box 5430, Parsippany, NJ, 07054
Phone: (973) 560-1400 Fax: (973) 560-0400

Test Pit Excavation Log for: C3-2

Site Name: Edgewater	EWMA Job #: 200754	Test Pit Depth: 12'
Owner: Scott Heller	NJDEP Program #:	Test Pit Length: 10'
Location: 1 River Rd. Edgewater, NJ	Test Pit Install Date: June 8,2000	Test Pit Width: 10'
	Test Pit Completion Date: June 8, 2000	
Type of Excavator: Trackhoe	Contractor: EWMA	G.W. Encountered: 9'
Sampling Method: Disposable Scoop	Operator: John	Static Water:
	Geologist: Scott Bisbort	

Depth (ft.)	Sample ID and Depth	PID (Meter Units)	Soil Type		Soil/Geologic Description	Depth (ft.)
1		0	SM	0-6'	dark brown fine to coarse SAND and SILT, some rocks, wood, brick and cement fragments	1
2		0				2
3		0				3
4		0				4
5		0				5
6	C3-2A	0				6
7		0	CL	6'-8'	grayish CLAY fill, trace cobble, brick, cement, trace black tar	7
8	C3-2B	0				8
9		0	CL	8'-10'	greyish CLAY and blackish-purple silt and medium sand fill	9
10	C3-2C	0				10
11		0	OL	10'-12'	grey SILT with trace meadow mat	11
12	C3-2D	0				12
13					Pit Ends @ 12.0'	13
14						14
15						15
16						16
17						17
18						18
19						19
20						20
21						21
22						22
23						23
24						

ENVIRONMENTAL WASTE MANAGEMENT ASSOCIATES, INC.
PO Box 5430, Parsippany, NJ, 07054
Phone: (973) 560-1400 Fax: (973) 560-0400

Test Pit Excavation Log for: C3-3

Site Name: Edgewater	EWMA Job #: 200754	Test Pit Depth: 15'
Owner: Scott Heller	NJDEP Program #:	Test Pit Length: 10'
Location: 1 River Rd. Edgewater, NJ	Test Pit Install Date: June 8,2000	Test Pit Width: 10'
	Test Pit Completion Date: June 8, 2000	
Type of Excavator: Trackhoe	Contractor: EWMA	G.W. Encountered: 9'
Sampling Method: Disposable Scoop	Operator: John	Static Water:
	Geologist: Scott Bisbort	

Depth (ft.)	Sample ID and Depth	PID (Meter Units)	Soil Type	Soil/Geologic Description	Depth (ft.)
1		0	SM	0-6' dark brown fine to coarse SAND and SILT, some rocks, wood, brick and cement fragments	1
2		0			2
3		0			3
4		0			4
5		0			5
6	C3-3A	0			6
7		0	SP	6'-8' black medium to coarse SAND and SILT fill, some cobbles, trace grey clay and black staining	7
8	C3-3B	0			8
9		0	OL	8'-15' grey SILT with trace meadow mat	9
10		0			10
11		0			11
12		0			12
13		0			13
14		0			14
15	C3-3C	0			15
16				Pit Ends @ 15.0'	16
17					17
18					18
19					19
20					20
21					21
22					22
23					23
24					

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Test Pit Excavation Log for: C3-7

Site Name: Edgewater	EWMA Job #: 200754	Test Pit Depth: 14'
Owner: Scott Heller	NJDEP Program #:	Test Pit Length: 10'
Location: 1 River Rd. Edgewater, NJ	Test Pit Install Date: June 8,2000	Test Pit Width: 10'
	Test Pit Completion Date: June 8, 2000	
Type of Excavator: Trackhoe	Contractor: EWMA	G.W. Encountered: 9'
Sampling Method: Disposable Scoop	Operator: John	Static Water:
	Geologist: Scott Bisbort	

Depth (ft.)	Sample ID and Depth	PID (Meter Units)	Soil Type		Soil/Geologic Description	Depth (ft.)
1		0	SM	0-6'	dark brown fine to coarse SAND and SILT, some rocks, wood, brick and cement fragments	1
2		0				2
3		0				3
4		0				4
5		0				5
6	C3-7A	0				6
7		0	SP	6'-8'	black medium to coarse SAND, some fine gravel, trace light brown medium sand	7
8	C3-7B	0				8
9		0	SP	8'-12"	reddish-purple fine to coarse SAND	9
10		0				10
11		0				11
12	C3-7C	0				12
13		0	OL	12'-14'	grey SILT with trace meadow mat	13
14	C3-7D	0				14
15					Pit Ends @ 14.0'	15
16						16
17						17
18						18
19						19
20						20
21						21
22						22
23						23
24						

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Test Pit Excavation Log for: C3-8

Site Name: Edgewater	EWMA Job #: 200754	Test Pit Depth: 13'
Owner: Scott Heller	NJDEP Program #:	Test Pit Length: 10'
Location: 1 River Rd. Edgewater, NJ	Test Pit Install Date: June 8,2000	Test Pit Width: 10'
	Test Pit Completion Date: June 8, 2000	
Type of Excavator: Trackhoe	Contractor: EWMA	G.W. Encountered: 9'
Sampling Method: Disposable Scoop	Operator: John	Static Water:
	Geologist: Scott Bisbort	

Depth (ft.)	Sample ID and Depth	PID (Meter Units)	Soil Type		Soil/Geologic Description	Depth (ft.)
1		0	SM	0-6'	dark brown fine to coarse SAND and SILT, some rocks, wood, brick and cement fragments	1
2		0				2
3		0				3
4		0				4
5		0				5
6	C3-8A	0				6
7		0	SP	6'-8'	black medium to coarse SAND, some fine gravel	7
8	C3-8B	0				8
9		0	SP	8'-12	reddish-purple fine to coarse SAND	9
10		0				10
11		0				11
12	C3-8C	0				12
13	C3-8D	0	OL	12'-13'	grey SILT with trace meadow mat	13
14					Pit Ends @ 13.0'	14
15						15
16						16
17						17
18						18
19						19
20						20
21						21
22						22
23						23
24						

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Test Pit Excavation Log for: C3-9

Site Name: Edgewater	EWMA Job #: 200754	Test Pit Depth: 13'
Owner: Scott Heller	NJDEP Program #:	Test Pit Length: 10'
Location: 1 River Rd. Edgewater, NJ	Test Pit Install Date: June 8,2000	Test Pit Width: 10'
	Test Pit Completion Date: June 8, 2000	
Type of Excavator: Trackhoe	Contractor: EWMA	G.W. Encountered: 9'
Sampling Method: Disposable Scoop	Operator: John	Static Water:
	Geologist: Scott Bisbort	

Depth (ft.)	Sample ID and Depth	PID (Meter Units)	Soil Type		Soil/Geologic Description	Depth (ft.)
1		0	SM	0-6'	dark brown fine to coarse SAND and SILT, some rocks, wood, brick and cement fragments	1
2		0				2
3		0				3
4		0				4
5		0				5
6	C3-9A	0				6
7		0	SP	6'-8'	black medium to coarse SAND, some fine gravel	7
8	C3-9B	0				8
9		0	SP	8'-12'	reddish-purple fine to coarse SAND	9
10		0				10
11		0				11
12	C3-9C	0				12
13	C3-9D	0	OL	12'-13'	grey SILT with trace meadow mat	13
14					Pit Ends @ 13.0'	14
15						15
16						16
17						17
18						18
19						19
20						20
21						21
22						22
23						23
24						

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Test Pit Excavation Log for: C3-11

Site Name: Edgewater	EWMA Job #: 200754	Test Pit Depth: 12'
Owner: Scott Heller	NJDEP Program #:	Test Pit Length: 10'
Location: 1 River Rd. Edgewater, NJ	Test Pit Install Date: June 8,2000	Test Pit Width: 10'
	Test Pit Completion Date: June 8, 2000	
Type of Excavator: Trackhoe	Contractor: EWMA	G.W. Encountered: 9'
Sampling Method: Disposable Scoop	Operator: John	Static Water:
	Geologist: Scott Bisbort	

Depth (ft.)	Sample ID and Depth	PID (Meter Units)	Soil Type	Soil/Geologic Description	Depth (ft.)
1		0	SM	0-6' dark brown fine to coarse SAND and SILT, some rocks, wood, brick and cement fragments	1
2		0			2
3		0			3
4		0			4
5		0			5
6	C3-11A	0			6
7	C3-11B	0	SP	6'-7' black medium to coarse SAND, some fine gravel	7
8		0	SP	7'-12' reddish-purple fine to coarse SAND	8
9		0			9
10		0			10
11		0			11
12	C3-11C	0			12
	C3-11Y	0	CL	12'-12.5' yellow-grey CLAY	
13		0	OL	12.5'-14' grey SILT with trace meadow mat	13
14	C3-11D	0			14
15				Pit Ends @ 14.0'	15
16					16
17					17
18					18
19					19
20					20
21					21
22					22
23					23
24					

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Test Pit Excavation Log for: C3-12

Site Name: Edgewater	EWMA Job #: 200754	Test Pit Depth: 13'
Owner: Scott Heller	NJDEP Program #:	Test Pit Length: 10'
Location: 1 River Rd. Edgewater, NJ	Test Pit Install Date: June 8,2000	Test Pit Width: 10'
	Test Pit Completion Date: June 8, 2000	
Type of Excavator: Trackhoe	Contractor: EWMA	G.W. Encountered: 9'
Sampling Method: Disposable Scoop	Operator: John	Static Water:
	Geologist: Scott Bisbort	

Depth (ft.)	Sample ID and Depth	PID (Meter Units)	Soil Type		Soil/Geologic Description	Depth (ft.)
		0	SM	0-5'	dark brown fine to coarse SAND and SILT, some rocks, wood, brick and cement fragments	
1		0				1
		0				
2		0				2
		0				
3		0				3
		0				
4		0				4
		0				
5	C3-12A	0				5
		0	SP	5'-6'	black medium to coarse SAND, some fine gravel	
6	C3-12B	0				6
		0	SP	6'-12'	purple fine to coarse SAND	
7		0				7
		0				
8		0				8
		0				
9		0				9
		0				
10		0				10
		0				
11		0				11
		0				
12		0				12
	C3-12C	0	OL	12'-13'	grey SILT with trace meadow mat	
13		0				13
14				Pit Ends @ 13.0'		14
15						15
16						16
17						17
18						18
19						19
20						20
21						21
22						22
23						23
24						

APPENDIX 6

APPENDIX 7

APPENDIX 5

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Test Pit Excavation Log for: C3-13

Site Name: Edgewater	EWMA Job #: 200754	Test Pit Depth: 13'
Owner: Scott Heller	NJDEP Program #:	Test Pit Length: 10'
Location: 1 River Rd. Edgewater, NJ	Test Pit Install Date: June 8,2000	Test Pit Width: 10'
	Test Pit Completion Date: June 8, 2000	
Type of Excavator: Trackhoe	Contractor: EWMA	G.W. Encountered: 9'
Sampling Method: Disposable Scoop	Operator: John	Static Water:
	Geologist: Scott Bisbort	

Depth (ft.)	Sample ID and Depth	PID (Meter Units)	Soil Type		Soil/Geologic Description	Depth (ft.)
1		0	SM	0-6'	dark brown fine to coarse SAND and SILT, some rocks, wood, brick and cement fragments	1
2						2
3						3
4						4
5						5
6	C3-13A					6
7	C3-13B	0	SP	6'-7'	reddish-purple fine to coarse SAND	7
8		0	SP	7'-12'	wood	8
9						9
10						10
11						11
12	C3-13C					12
13	C3-13D	0	OL	12'-13'	grey SILT with trace meadow mat	13
14				Pit Ends @ 13.0'		14
15						15
16						16
17						17
18						18
19						19
20						20
21						21
22						22
23						23
24						

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Test Pit Excavation Log for: ~~E3-16~~ C3-16

Site Name: Edgewater	EWMA Job #: 200754	Test Pit Depth: 11'
Owner: Scott Heller	NJDEP Program #:	Test Pit Length: 10'
Location: 1 River Rd. Edgewater, NJ	Test Pit Install Date: June 8,2000	Test Pit Width: 10'
	Test Pit Completion Date: June 8, 2000	
Type of Excavator: Trackhoe	Contractor: EWMA	G.W. Encountered: 9'
Sampling Method: Disposable Scoop	Operator: John	Static Water:
	Geologist: Scott Bisbort	

Depth (ft.)	Sample ID and Depth	PID (Meter Units)	Soil Type		Soil/Geologic Description	Depth (ft.)
		0	SM	0-6'	dark brown fine to coarse SAND and SILT, some rocks, wood,	
1		0			brick and cement fragments	1
		0				
2		0				2
		0				
3		0				3
		0				
4		0				4
		0				
5		0				5
		0				
6	E3-16A	0				6
		0	SP	6'-7'	black medium to coarse SAND, some fine gravel	
7	E3-16B	0				7
		0	SP	7'-7.5'		
8		0	CL	7.5'-8'	Yellow-grey CLAY and coarse SAND	8
		0	SP	8'-11'	reddish-purple fine to coarse SAND	
9		0				9
		0				
10		0				10
		0				
11	E3-16C	0				11
12					Refusal @ 11.0', brick and concrete encountered	12
13						13
14						14
15						15
16						16
17						17
18						18
19						19
20						20
21						21
22						22
23						23
24						

APPENDIX B

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Test Pit Excavation Log for: ~~E3-17~~ C3-17

Site Name: Edgewater	EWMA Job #: 200754	Test Pit Depth: 14'
Owner: Scott Heller	NJDEP Program #:	Test Pit Length: 10'
Location: 1 River Rd. Edgewater, NJ	Test Pit Install Date: June 8,2000	Test Pit Width: 10'
	Test Pit Completion Date: June 8, 2000	
Type of Excavator: Trackhoe	Contractor: EWMA	G.W. Encountered: 9'
Sampling Method: Disposable Scoop	Operator: John	Static Water:
	Geologist: Scott Bisbort	

Depth (ft.)	Sample ID and Depth	PID (Meter Units)	Soil Type	Soil/Geologic Description	Depth (ft.)
1		0	SM	0-6' dark brown fine to coarse SAND and SILT, some rocks, wood, brick and cement fragments	1
2		0			2
3		0			3
4		0			4
5		0			5
6	E3-17A	0			6
7	E3-17B	0	SP	6'-7' black medium to coarse SAND, some fine gravel	7
8		0	SP	7'-11' reddish-purple fine to coarse SAND	8
9		0			9
10		0			10
11	E3-17C	0			11
12		0	SC	11'-14' grey medium SAND and CLAY, little fine gravel	12
13		0			13
14	E3-17D	0			14
15				Pit Ends @ 14.0'	15
16					16
17					17
18					18
19					19
20					20
21					21
22					22
23					23
24					

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Test Pit Excavation Log for: ~~E3-20~~ C3-20

Site Name: Edgewater	EWMA Job #: 200754	Test Pit Depth: 14'
Owner: Scott Heller	NJDEP Program #:	Test Pit Length: 10'
Location: 1 River Rd. Edgewater, NJ	Test Pit Install Date: June 8,2000	Test Pit Width: 10'
	Test Pit Completion Date: June 8, 2000	
Type of Excavator: Trackhoe	Contractor: EWMA	G.W. Encountered: 9'
Sampling Method: Disposable Scoop	Operator: John	Static Water:
	Geologist: Scott Bisbort	

Depth (ft.)	Sample ID and Depth	PID (Meter Units)	Soil Type		Soil/Geologic Description	Depth (ft.)
1		0	SM	0-6'	dark brown fine to coarse SAND and SILT, some rocks, wood, brick and cement fragments	1
2		0				2
3		0				3
4		0				4
5		0				5
6	E3-20A	0				6
7	E3-20B	0	SP	6'-7'	black medium to coarse SAND, some fine gravel	7
8		0	SP	7'-12'	reddish-purple fine to coarse SAND	8
9		0				9
10		0				10
11		0				11
12	E3-20C	0				12
13		0	OL	12'-14'	grey SILT with trace meadow mat	13
14	E3-20D	0				14
15					Pit Ends @ 14.0'	15
16						16
17						17
18						18
19						19
20						20
21						21
22						22
23						23
24						

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Test Pit Excavation Log for: ~~E3-21~~ C3-21

Site Name: Edgewater	EWMA Job #: 200754	Test Pit Depth: 13'
Owner: Scott Heller	NJDEP Program #:	Test Pit Length: 10'
Location: 1 River Rd. Edgewater, NJ	Test Pit Install Date: June 8,2000	Test Pit Width: 10'
	Test Pit Completion Date: June 8, 2000	
Type of Excavator: Trackhoe	Contractor: EWMA	G.W. Encountered: 9'
Sampling Method: Disposable Scoop	Operator: John	Static Water:
	Geologist: Scott Bisbort	

Depth (ft.)	Sample ID and Depth	PID (Meter Units)	Soil Type		Soil/Geologic Description	Depth (ft.)
1		0	SM	0-6'	dark brown fine to coarse SAND and SILT, some rocks, wood, brick and cement fragments	1
2		0				2
3		0				3
4		0				4
5		0				5
6	E3-21A	0				6
7	E3-21B	0	SP	6'-7'	black medium to coarse SAND, some fine gravel	7
8		0	SP	7'-12'	reddish-purple fine to coarse SAND	8
9		0				9
10		0				10
11		0				11
12	E3-21C	0				12
13	E3-21D	0		12'-13'	grey-white medium SAND	13
14					Pit Ends @ 13.0'	14
15						15
16						16
17						17
18						18
19						19
20						20
21						21
22						22
23						23
24						